



Government of India
Ministry of Environment, Forest and Climate Change
 (Issued by the State Environment Impact Assessment
 Authority (SEIAA),
 WEST BENGAL)



**Minutes of 44th meeting of SEIAA (Reconstituted on 17.05.2023) State Environment
 Impact Assessment Authority meeting held from 28/06/2024 to 28/06/2024 Date: 03/07/2024**

MoM ID:	EC/MOM/SEIAA/171372/6/2024	
Agenda ID:	EC/AGENDA/SEIAA/171372/6/2024	
Meeting Venue:	Conference Room of Environment Department, Prani Sampad Bhavan, 5th Floor, LB Block, Sector III, Salt Lake, Kolkata 700106.	
Meeting Mode:	Hybrid	
Date & Time:		
	28/06/2024	02:00 PM
		05:30 PM

1. Opening remarks

SEIAA Chairman and Member Secretary greeted each other and started discussion point wise as per the agenda.

2. Confirmation of the minutes of previous meeting

In the 43rd meeting minutes, the details of sanctioned building plan for the residential project by ORBIT NIKETAN PRIVATE LIMITED (Proposal no. SIA/WB/INFRA2/468091/2024) was inadvertently wrongly noted which is now corrected and replaced as "Building Permit No 2023070219 dated 21/02/2024, issued by The Kolkata Municipal Corporation, Building Department". The rest of the minutes is confirmed.

3. Details of proposals considered by the committee

Day 1 -28/06/2024

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Proposed expansion by installation of Induction furnace (5 x 25 T) with matching CCM for production of 3,37,500 TPA M.S. Billets along with 3,20,000 TPA Structural mill with matching reheating furnace, Oxygen plant-60 TPD, WHRB based 06 MW Captive power plant and keeping coke oven plant capacity as it is i.e. 90,000 TPA. by WELLMAN CARBO METALICKS INDIA LIMITED located at MEDINIPUR WEST, WEST BENGAL			
Proposal For	Fresh EC		
Proposal No	File No	Submission Date	Activity

			(Schedule Item)
SIA/WB/IND1/463978/2024	2N-517/2023(E)	26/02/2024	Metallurgical Industries (ferrous and non ferrous) (3(a))

3.1.2. Deliberations by the committee in previous meetings

<p>Date of SEIAA 1 :13/05/2024</p> <p>Deliberations of SEIAA 1 :</p> <p>INTRODUCTION</p> <p>The proponent made online application vide proposal no. SIA/WB/IND1/463978/2024 dated 26 February 2024 seeking environment clearance under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. 3(a) Metallurgical Industries (ferrous and non ferrous) projects under Category "B1" of EIA Notification 2006.</p> <p>Earlier the PP had obtained EC vide no. EN/2927/T-II-1/077/2010 dated 19.10.2010 from SEIAA, WB for the proposed expansion of the existing Non-Recovery Type Coke Oven Plant (20 Nos. of ovens) with Heat Recovery system. The PP obtained Auto-ToR vide No. EN/T-II-1/367/2023 issued by SEIAA, WB against proposal no. SIA/WB/IND1/425643/2023 dated 19.04.2023.</p> <p>SEAC, during its 35th meeting held on 10.04.2024, recommended the proposed project for Environmental Clearance.</p> <p>PROJECT DETAILS</p> <p>The project of M/s. Wellman Carbo Metalicks India Limited located is as follows :</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>State</th> <th>District</th> </tr> </thead> <tbody> <tr> <td>(1.)</td> <td>West Bengal</td> <td>Paschim Medinipur</td> </tr> </tbody> </table> <p>The salient features of the project submitted by the project proponent is available under online proposal no. SIA/WB/IND1/463978/2024 in PARIVESH Portal.</p> <p>SEIAA considered the recommendation of SEAC and observed the following :-</p> <ol style="list-style-type: none"> PP was required to do plantation in an area of 5.5 acres. It has not been mentioned in how much area plantation has been done. PP is required to submit the area in which plantation is done till date. The PP required to submit all compliance reports since EC was issued. When M/s. Wellman Carbo Metalicks India Limited has gone in liquidation and M/s. Orissa Metaliks Pvt. Ltd. has purchased the assets, the reason for present EC application for expansion being made by M/s. Wellman Carbo Metalicks India Limited need to be explained. PP must submit point wise present status of compliance of EC conditions issued vide no. EN/2927/T-II-1/077/2010 dated 19.10.2010. <p>PP is requested to make a presentation on the above-mentioned points once the ADS reply is submitted to SEIAA in the PARIVESH portal.</p>	S. No.	State	District	(1.)	West Bengal	Paschim Medinipur
S. No.	State	District				
(1.)	West Bengal	Paschim Medinipur				

<p>Date of SEAC 2 :10/04/2024</p> <p>Deliberations of SEAC 2 :</p> <ul style="list-style-type: none"> The SEAC scrutinized the documents submitted by the PP in the 35th meeting of SEAC, WB (2023-2026) held on 10.04.2024. After careful consideration and detailed deliberation, the committee recommended the proposed project for Environmental Clearance.
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<p>Date of SEAC 3 :13/03/2024</p>
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Deliberations of SEAC 3 :

- Based on the application made, documents uploaded / submitted, and the presentation made by the PP/Consultant, the SEAC made the following observations:

Mandatory Documents

- 1) Compliance of the conditions mentioned in the EC issued to the PP vide No. EN/2927/T-II-1/077/2010 dated 19.10.2010.
- 2) Status of construction of the project.
- 3) Proper land documents in the name of the PP should be submitted.
- 4) Requirement for 60 TPD oxygen plant in the project.
- 5) Project summary in a table covering all the salient features along with the comparative chart with the existing project for which EC obtained and the present expansion project should be submitted.

Water and waste water

- 6) Permission for the entire water requirement of 383 KLD.
- 7) Detailed flow diagram of ETP and STP proposed.
- 8) Management plan for phenolic water and tar generated from coal gasifier.
- 9) In the water balance diagram, source of inlet (daily make up water) water should be shown.

Rain Water Harvesting

- 10) Proposal for maximum rainwater harvesting should be submitted.

Greenbelt

- 11) Layout plan for the project showing complete area statement in sqm. and percentage totaling to 100% (table wise) should be submitted. The area for greenbelt should be clearly marked in the plan.
- 12) Wild life conservation plan should be submitted.

Miscellaneous

- 13) Environmental management plan for the coal storage area should be provided.

Need-based EMP

- 14) EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 needs to be submitted. Beneficiaries for the social part of EMP should be identified and communication with the proposed beneficiaries should be submitted.
- 15) Activities at the nearby schools are preferred rather than constructing public toilets or solar street lights.

The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

3.1.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/IND1/463978/2024** dated **26 February 2024** along with copies of EIA/EMP seeking environment clearance under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **3(a) Metallurgical Industries (ferrous and non ferrous)** projects under Category "**B1**" of EIA Notification 2006.

Earlier the project proponent (PP) had obtained EC vide no. EN/2927/T-II-1/077/2010 dated 19.10.2010 from SEIAA, WB for the proposed expansion of the existing Non-Recovery Type Coke Oven Plant (20 Nos. of ovens) with Heat Recovery system.

The PP obtained Auto-ToR vide No. EN/T-II-1/367/2023 dated 19.04.2023 issued by SEIAA, WB against proposal no. SIA/WB/IND1/425643/2023.

SEAC, during its 35th meeting held on 10.04.2024, recommended the proposed project for Environmental Clearance. SEIAA during its 40th meeting on 13.05.2024 considered the recommendation of SEAC and sought detailed clarifications pertaining to the project outlined in the MoM of the 40th meeting that has been uploaded on the PARIVESH portal. The PP was asked to appear and present before SEIAA on 28.06.2024 the ADS replies that were submitted in the PARIVESH portal.

PROJECT DETAILS

The project of **Wellman Carbo Metalicks India Limited** located is as follows :

S. No.	State	District
(1.)	West Bengal	Paschim Medinipur

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/IND1/463978/2024 in PARIVESH Portal.**

PP made a presentation before the SEIAA. Since there was certain shortcomings in their reply which were pointed out by SEIAA to the PP, SEIAA decided to sent back the proposal to the PP to upload their revised complete reply to all the points.

3.1.4. Recommendation of SEIAA

Deferred for ADS

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

The Residential Project by M/s Rajlakshmi Marketing Pvt. Ltd. located at Mouza - Kathore, PS - Barasat, under Barasat Municipality District - North 24 Parganas, West Bengal by RAJLAKSHMI MARKETING PRIVATE LIMITED located at 24 PARAGANAS NORTH, WEST BENGAL

Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/INFRA2/472397/2024	2N-100/2024(E)	30/05/2024	Building / Construction (8(a))

3.2.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

Deliberations of SEAC 1 :

- Based on the application made and the documents uploaded / submitted, in the PARIVESH portal, SEAC observed that the PP has not yet obtained the sanctioned building plan from the competent authority. The PP has also not uploaded the DFO approved plantation plan, water permission, concurrences from local municipality and other mandatory documents.
- Considering the above, the SEAC decided in absence of the mandatory documents, the **application for EC may be rejected**. The PP should completely follow the notification issued by SEIAA vide no. 2495/EN-T-II-I/011/2018 dated 17.12.2019.

3.2.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/INFRA2/472397/2024** dated **30 May 2024** seeking environment clearance under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **8(a) Building / Construction** projects under Category "**B2**" of EIA Notification 2006.

SEAC, during its 40th meeting held on 08.06.2024, observed that the PP has not yet obtained the sanctioned building plan from the competent authority. The PP has also not uploaded the DFO approved plantation plan, water permission, concurrences from local municipality and other mandatory documents.

Considering the above, the SEAC decided in absence of the mandatory documents, the application for EC may be rejected.

PROJECT DETAILS

The project of M/s. Rajlakhmi Marketing Private Limited located is as follows :

S. No.	State	District
(1.)	West Bengal	North 24 Parganas

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/INFRA2/472397/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC to reject the proposal and decided that the project proponent is required to appear on 05.07.2024 for a hearing before the SEIAA, WB before a final decision on EC application is taken.

3.2.4. Recommendation of SEIAA

Discussed

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

Expansion cum Modification of Residential Complex by Merlin Ganges Projects by MERLIN GANGES PROJE CTS located at KOLKATA, WEST BENGAL

Proposal For	Fresh EC		
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/INFRA2/458302/2024	2N-70/2016(E)	10/01/2024	Building / Construction (8(a))

3.3.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

Deliberations of SEAC 1 :

- The SEAC scrutinized the documents submitted by the PP in the 40th meeting of SEAC, WB (2023-2026) held on 08.06.2024. After careful consideration and detailed deliberation, the committee **recommended the proposed project for Environmental Clearance.**

Date of SEAC 2 :31/01/2024

Deliberations of SEAC 2 :

- Based on the application made, documents uploaded / submitted, and the presentation made by the PP/Consultant, the SEAC made the following observations:

Mandatory documents:

- 1) Status of compliance of all the points mentioned in the CCR issued by MoEF&CC.
- 2) Reasons for decrease in the number of flats in spite addition of built up area.
- 3) Valid clearance from AAI for the project.
- 4) Arsenic iron, manganese, chloride, sulphate and nitrate test report of nearby 10 tubewells along with the total depth of each well should be submitted.
- 5) The project proposal submitted is only for vertical expansion of a single floor on top of three towers. However, it is observed that the ground coverage has decreased from 3629.91 sqm (40.06% of land area) to 3575.89 (39.62%). Reasons for change in ground coverage should be submitted.
- 6) The exclusive tree plantation area for the project has been reduced from 1879.65 sqm (20.74%) to 1813.27 sqm. (20.09%). However, it is observed that the open car parking area has increased substantially from 325.00 sqm (3.59%) to 605.46 sqm (6.72%). The reasons for increase in open parking area at the cost of exclusive tree plantation area should be submitted.
- 7) Ground floor plan indicating landscape area should be submitted.

Water and waste water

- 8) It was observed during inspection by MoEF&CC that ground water is being abstracted, whereas the EC was issued based on water supply by KMC. Necessary ground water permission from the competent authority should be submitted. An undertaking should be submitted for closure of the borewell if not properly regularized.
- 9) It is observed that although the fresh water requirement for the project is being increased, but the water reused is decreasing. Reasons for the above should be submitted.

Plantation

- 10) Six number existing trees should be marked on the plan and to be conserved as per rules.
Need based EMP:
- 11) Compliance of earlier need-based activities given in the EC issued vide EC Identification No. EC23B038WB142770, dated 28.04.2023. Evidence should be provided by photograph and/or certificate from the beneficiaries.
- 12) Specific need-based activities for the proposed expansion part of the project indicating the beneficiaries involved.

Recommendation: The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above- mentioned queries only through "PARIVESH" portal.

3.3.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/INFRA2/458302/2024** dated **10 January 2024** seeking environment clearance under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **8(a) Building / Construction** projects under Category "**B2**" of EIA Notification 2006.

Earlier the PP obtained EC issued by SEIAA, WB vide Memo no. 1186/EN/T-II-1/075/2016 dated 19.06.2019 for total built up area of 26487.89 sqm. for 164 nos. of flats and land area of 9061.71 sqm.

SEAC, during its 40th meeting held on 08.06.2024, recommended the proposed project for Environmental Clearance.

PROJECT DETAILS

The project of M/s. Merlin Ganges Projects located is as follows :

S. No.	State	District
(1.)	West Bengal	Kolkata

The salient features of the project submitted by the project proponent are available under online proposal no. SIA/WB/INFRA2/458302/2024 in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and observed the following :-

1. The PP has not uploaded six-monthly compliance report in the PARIVESH portal for the project which was given EC vide Memo No. 1186/EN/T-II-1/075/2016 dated 19.06.2019.
2. As per CCR, top soil has been used for land levelling purpose for the existing purpose which is in violation of EC condition.
3. Six-monthly ambient air quality and noise quality reports since 2019 are to be submitted.
4. The PP has abstracted ground water for construction purpose in violation of the EC conditions. Moreover, for installation of bore well necessary permission from SWID has not been taken. PP should explain why environmental compensation should not be imposed upon them.

Director, SWID to be informed of the violation for taking necessary action against the PP.

5. In reply to the ADS raised by SEAC, the PP has proposed to increase the plantation area through reduction of open car parking area at the time of completion of the project. No specific quantum of the proposed changes in the area has been provided. PP is requested to provide proposed changes in the area.
6. PP is requested to provide the details of greenbelt already developed (area and number of trees) since 2019.

Recommendation of SEIAA

The application for EC is deferred for additional information.

3.3.4. Recommendation of SEIAA

Deferred for ADS

3.4. Agenda Item No 4:**3.4.1. Details of the proposal**

Kashipur Black Stone Mine by RAUNAK SAH located at PURULIA, WEST BENGAL			
Proposal For		Mining EC Under 5 Ha	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/470402/2024	2N-75/2024(E)	24/04/2024	Mining of minerals (1(a))

3.4.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

Deliberations of SEAC 1 :

- The SEAC scrutinized the documents submitted by the PP in the 40th meeting of SEAC, WB (2023-2026) held on 08.06.2024. **The PP has obtained land conversion certificate from the competent authority.** After careful consideration and detailed deliberation, the committee **recommended the proposed project for Environmental Clearance** with the following additional conditions:
 - 1) The Proponent shall prepare a dust and noise minimization plan with adequate details. Care should be taken for prevention of occupational health issues of the workers. Amenities like personal protective equipments (PPEs) should be provided for them.
 - 2) A post closure long-term vegetative stabilisation program should be submitted along with the six monthly compliance report.
 - 3) Monitoring of PM₁₀, PM_{2.5} and its SiO₂ (free silica) content should be done along with noise levels.
 - 4) Dust suppression by sprinkling water should be adopted specially after dusty operations like drilling, blasting etc.
 - 5) Year-wise excavation schedule showing breakup of pay-mineral (black stone) and waste rock may be clearly drawn up and areas may be demarcated for waste dumping. Site for intermediate stockpiling of the mineral may also be clearly demarcated and show in the surface plan.
 - 6) As far as practicable the waste rock to be produced from the mine may be dumped in the existing pit-void adjacent to/ within the lease hold boundary. Any outside the pit dumping should be temporary in nature. All waste rock dumped outside the pit may be rehandled and backfilled in the mined out area.
 - 7) The proponent shall review the Progressive Mine Closure Plan every two years from the date of opening of the mine and shall submit the same to the officer authorised by the State Government in this behalf, for its approval under the West Bengal Minor Mineral Concession Rules, 2016. In the event of the progressive mine closure being not approved, or not deemed to be approved, the mining activities shall be discontinued.
 - 8) One year prior to the proposed closure of the mine the proponent shall submit a Final Mine Closure Plan to the officer authorised by the State Government in this behalf, for approval under the West Bengal Minor Mineral Concession Rules, 2016.
 - 9) The project proponent shall ensure that the protective measures contained in the Mine Closure Plan referred to hereinabove including the reclamation and rehabilitation work are carried out in accordance with the approved Mine Closure Plan or with such modifications as are approved by the officer authorised by the State Government in this behalf under the West Bengal Minor Mineral Concession Rules, 2016.
 - 10) In addition to regular submission of environmental compliance reports as required under the EIA Notification, 2006, the proponent shall submit to the officer authorised by the State Government in this behalf, a yearly report before 1st of July every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved Mine Closure Plan, and if there is any deviation, reasons thereof.
 - 11) For the purpose of carrying out mining operation in the area, the proponent shall furnish financial assurance. The amount of financial assurance shall be as laid down in the West Bengal Minor Mineral Concession Rules, 2016. The financial assurance may be in any of the forms referred to in the said Rules.
 - 12) Effects of blasting to the nearby localities should be examined and remedial plan should be in line with approved mine plan and as per rules of Mine Safety Authority.
 - 13) Needs of the locality may be assessed and a social part of the EMP should be undertaken as stipulated by MoEF&CC.

Date of SEAC 2 :04/05/2024

Deliberations of SEAC 2 :

- Based on the submission and presentation made by the PP, the committee observed **that the plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purulia district.
- The SEAC scrutinized the documents submitted by the PP in the 37th meeting SEAC, WB (2023-2026) held on 04.05.2024.
- Based on the submission and presentation made by the PP, the committee recommended that the following documents / clarifications may be uploaded in the PARIVESH portal by the project proponent for further consideration :-
 - 1) Layout plan for the project including all unit operations of the project. Storage tank, garland drain, septic tank should be shown on the layout.
 - 2) Mitigation plan for air pollution including occupational health and safety should be submitted. Impact of blasting should be analyzed, reported and mitigated.
 - 3) Over burden disposal and management plan.
 - 4) Complete transportation plan for the project. The plan should include the capacity of dumpers, trucks, excavators etc., and the number of trips undertaken per day. This should match with the production schedule as submitted in the approved Mine Plan.
 - 5) Break up of project cost. The land cost as per the current valuation should be included in the project cost.
 - 6) Need-based EMP for the project including the beneficiaries and the cost outlay each year. The entire need-based EMP should be completed within first two years of the project period.
 - 7) Safety and protection plan for the workers including regular health check-up for respiratory problem should be undertaken. Basic amenities like drinking water and toilets should be provided.
 - 8) A Progressive Greenbelt Plan may be prepared for 33% of the lease hold area. Afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success / survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted. Credible document regarding plantation by the Forest department on behalf of the project proponent should be submitted.
 - 9) Progressive and detailed mine closure plan should be submitted. The management plan for the void created should be submitted. If the abandoned mine should be used as a water body, details of its management should be provided. Fencing will be required for safety and embankment should be protected as per guidelines.
 - 10) Impact of the project activities on the local flora and fauna.
 - 11) Conservation/ Protection and management plan for biodiversity habitat and wild life in the mining area should be furnished.

The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

3.4.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/470402/2024** dated **24 April 2024** seeking environment clearance under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B2**" of EIA Notification 2006. SEAC, during its 40th meeting held on 08.06.2024, recommended the proposed project for Environmental Clearance with additional conditions.

PROJECT DETAILS

The project of **Shri Raunak Sah** located is as follows :

S. No.	State	District
(1)	West Bengal	Purulia

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/470402/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and decided that the application for Kashipur Black Stone Mine over an area of 2.833 ha (7.00 Acre) at J. L. No. 124, Plot No. 408(P), Mouza – Nischintapur, Block and PS – Kashipur, District – Purulia, West Bengal, Pin – 723 145 by Shri Raunak Sah falling within the DSR potential zone code PUR_BS_ZONE_24 is accepted with the conditions recommended by SEAC with the following additional conditions:-

- i. The PP is required to undertake dust suppression by water sprinkling immediately after the drilling and blasting operations and workers would be allowed to work only after subsidence of dust in the area.**
- ii. PP will complete the plantation in safety zone with 4-5 ft. tall seedlings before starting the mining activity.**
- iii. Regular medical check up of the workers should be done. Chest X-ray (PA View) and pulmonary function test of all workers should be done at least once in six months. The report along with comments of the medical officer should be submitted in the six monthly compliance report.**
- iv. Workers exposure to dust (average of at least five consecutive days) should be monitored along with silica content of the dust once in six months and should be submitted along with six monthly compliance report.**
- v. Workers should use Personal Protective Equipment (PPE) equipment during the work.**
- vi. The PP shall submit geo-tagged photographs regarding the implementation of CER with actual expenses incurred. The CER and plantation will have to be implemented within first two years of starting of mining operation.**
- vii. The validity of EC will be for 5 years. However, the PP may apply for extension of EC with revised mining plan before expiry of 5 years hence.**

3.4.4. Recommendation of SEIAA

Approved

3.4.5. Details of Environment Conditions

3.4.5.1. Specific

N/A

3.4.5.2. Standard

1(a) **Mining of minerals**

Statutory compliance

1.	The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project
1.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
1.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. TThe implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
1.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
1.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority
1.	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
1.	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
1.	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
1.	The validity of EC will be for 5 years. However, the PP may apply for extension of EC with revised mining plan before expiry of 5 years hence.
Air quality monitoring and mitigation measure	
1.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Online ambient air quality monitoring station/stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB
1.	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
1.	Transportation of coal, to the extent if permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
1.	Major approach roads shall be black topped and properly maintained.
1.	PP to install solar lights along the road used for transportation of coal to avoid the accidents at night and also seek its maintenance.

1.	The transportation of coal shall be carried out as per the provisions and route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed that the impact of sound, dust and accidents could be appropriately mitigated.
1.	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
1.	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
1.	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.
1.	Adequate number of Fog canon (mist sprayer) shall be installed to reduce the impact of air pollution at dust generating sources with time bound action plan.
1.	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
1.	Post environmental closure third party monitoring by reputed instituted in air quality, water, land & soil etc shall be carried out and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to IRO, MoEF&CC for compliance. The data used for analysis shall be obtained from continuous AQMS, site specific water regime. Also third party shall analyses the implementation of river diversion, meeting to the requirement of project report.
Water quality monitoring and mitigation measures	
1.	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
1.	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
1.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
1.	Monitoring of water quality upstream and downstream of river including ponds, lakes, tanks shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
1.	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
1.	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
1.	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum

	discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff
1.	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
1.	Industrial waste water from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste water.
1.	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
1.	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
1.	The project proponent shall take all precautionary measures to ensure reversion/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A reversion /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
1.	Domestic water shall be providing to the residents/villages which are coming under the zone of influence of the project due to ground water extraction by installing a RO plant with proper supply line and Taps within 2 years
1.	No obsolete technologies for sewage treatment shall be implemented. Construction of Sewage Treatment Plant with latest technology should be completed within 2 years and treated water shall be reused for plantation. CTE and CTO of STP shall be obtained as per the norms.
Noise and Vibration monitoring and prevention	
1.	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
1.	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.
Mining Plan	
1.	5- Star Rating is mandatory to obtain certification as per guidelines of Ministry of Coal
1.	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
1.	No change in mining method i.e. UG to OC, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).

1.	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
1.	Underground work place environmental conditions shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
1.	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.
1.	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
1.	Transportation by Railway Siding shall be developed to avoid transportation by Road

Land Reclamation

1.	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
1.	Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
1.	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
1.	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.
1.	A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
1.	Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine.
1.	Native tree species shall be selected and planted over areas affected by subsidence.
1.	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

Public hearing and Human health issues

1.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
1.	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from

	workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
1.	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
1.	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
1.	Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
1.	Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
1.	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
1.	PP to conduct need based assessment survey of the area to for in order to decide the activities to be carried under the CSR and to provide detail of the activity carried out with adequate budgetary provision and time bound action plan.
1.	PP should conduct epidemiology study to (analysis of the distribution, patterns and determinants of health and disease conditions in defined populations).
1.	Permanent Health care facilities of Hospital should be established within 5 km of project boundary for the local people.
1.	PP must ensure an emergency action plan during pandemic in order to provide assistance to the nearby villages located within the 10 km radius buffer zone (If required)
1.	PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone with time bound action plan
1.	PP to take measure for installation of Renewable Energy sources in nearby area falling within 10 km radius
Corporate Environment Responsibility	
1.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
1.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
1.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

1.	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
1.	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non- compliance or infringement should be reported to the concerned authority
Miscellaneous	
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
1.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
1.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
1.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
1.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
1.	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
1.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
1.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
1.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
1.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
1.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
1.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
1.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

1.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
1.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.
1.	Compensation of the land acquired for the project shall be settled as per the R&R Policy. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
1.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
1.	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours
1.	The PP is required to undertake dust suppression by water sprinkling immediately after the drilling and blasting operations and workers would be allowed to work only after subsidence of dust in the area.
1.	PP will complete the plantation in safety zone with 4-5 ft. tall seedlings before starting the mining activity.
1.	Regular medical check up of the workers should be done. Chest X-ray (PA View) and pulmonary function test of all workers should be done at least once in six months. The report along with comments of the medical officer should be submitted in the six monthly compliance report.
1.	Workers exposure to dust (average of at least five consecutive days) should be monitored along with silica content of the dust once in six months and should be submitted along with six monthly compliance report.
1.	Workers should use Personal Protective Equipment (PPE) equipment during the work.
1.	The PP shall submit geo-tagged photographs regarding the implementation of CER with actual expenses incurred. The CER and plantation will have to be implemented within first two years of starting of mining operation.

3.5. Agenda Item No 5:

3.5.1. Details of the proposal

Magh Riverbed Sand Block (MIN_PUR_15) by WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED located at PURULIA, WEST BENGAL			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/458258/2024	2N-398/2023(E)	19/01/2024	Mining of minerals (1(a))

3.5.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

Deliberations of SEAC 1 :

- The SEAC scrutinized the documents submitted by the PP in the 40th meeting of SEAC, WB (2023-2026) held on 08.06.2024.
- The SEAC scrutinized the documents submitted by the PP in the 40th meeting of SEAC, WB (2023-2026) held on 08.06.2024 and after careful consideration and detailed deliberation the committee **recommended the proposed project for Environmental Clearance** with the conditions that the following should be submitted along with the six monthly compliance report:
 - 1) Monthly monitoring of base flow level at four points of the project should be conducted by installing piezometer and to be reported in the six monthly compliance report.
 - 2) Stipulated plantation should preferably be done adjacent to the project. If not possible due to unavailability of suitable land, plantation may be done at other location in the same block. The particular plantation area should be dedicated and marked for the particular project and to be certified by the respective BDO.
 - 3) Sieve analysis report for grain size distribution should be provided along with six monthly compliance report.
 - 4) Status of the need-based activities to be reported during six monthly progress report. The entire need-based EMP should be completed within first two years of the project period. The planned expenditure for components like need-based activities may be derived based on the project cost. Proper documents should be submitted along with the six-monthly compliance report.
 - 5) Transportation plan should be provided in six monthly compliance report.
 - 6) Basic amenities, safety and occupational health examinations for labourers to be provided along with six monthly compliance reports.
 - 7) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Geotagged photographs of actual plantation done to be submitted along with six monthly compliance reports. Credible document regarding plantation by the Forest department on behalf of the project proponent should be submitted.
 - 8) Studies on the biotic components of the river and the impact of sand mining on these components should be submitted.
 - 9) Bank line monitoring report should be submitted along with the six-monthly progress reports.

Date of SEAC 2 :20/03/2024

Deliberations of SEAC 2 :

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purulia district.
- The SEAC scrutinized the documents submitted by the PP in the 28th SEAC meeting held on 07.02.2024 and after careful consideration and detailed deliberation the committee observed that the PP has not submitted any specific reply to the additional points mentioned in the ToR especially the points f, g & h. No details of plantation have been mentioned. Detailed study of aquatic life, especially, plankton has not been submitted.

Therefore, the SEAC recommended that the above documents should be rectified and submitted in the PARIVESH portal for further consideration of the application.

- The project proponent uploaded their reply in PARIVESH Portal on 09.03.2024, which as considered in the 33rd meeting of SEAC, WB (2023-2026) held on 20.03.2024.

Date of SEAC 3 :07/02/2024

Deliberations of SEAC 3 :

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purulia district.
- The SEAC scrutinized the documents submitted by the PP in the 28th SEAC meeting held on 07.02.2024 and after careful consideration and detailed deliberation the committee observed that the PP has not submitted any specific reply to the additional points mentioned in the ToR especially the points f, g & h. No details of plantation has been mentioned. Detailed study of aquatic life, especially, plankton has not been submitted.

Therefore, the SEAC recommended that the above documents should be rectified and submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

3.5.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/458258/2024** dated **19 January 2024** along with copies of EIA/EMP seeking environment clearance under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006.

The PP obtained ToR vide No. 1420/EN-T-II1/387/2023 dated 20.07.2023, issued by SEIAA, WB against Proposal No. SIA/WB/MIN/427185/2023.

SEAC, during its 40th meeting held on 08.06.2024 recommended the proposed project for Environmental Clearance with additional conditions.

PROJECT DETAILS

The project of M/s. West Bengal Mineral Development and Trading Corporation Limited located is as follows :

S. No.	State	District
(1.)	West Bengal	Purulia

The salient features of the project submitted by the project proponent is available under online proposal no. SIA/WB/MIN/458258/2024 in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and decided that the application for Magh Riverbed Sand Block (MIN_PUR_15) over an area of 10.15 ha (25.08 acres) on the Subarnarekha river at Plot No. 1599(P), 1600(P), JL No. 45, Mouza – Magh, P.S.: Jhalda, Block – Jhalda-I, Dist: Purulia, West Bengal by M/s. West Bengal Mineral Development and Trading Corporation Limited falling within the DSR potential zone code PUR_JL_SR_07 is accepted with the conditions recommended by SEAC with the additional condition that the validity of EC will be for 5 years. However, the PP may apply for extension of EC with revised mining plan before expiry of 5 years hence.

3.5.4. Recommendation of SEIAA

Approved

3.5.5. Details of Environment Conditions

3.5.5.1. Specific

N/A

3.5.5.2. Standard

1(a)	Mining of minerals
Statutory compliance	
1.	The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project
1.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
1.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. TThe implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
1.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
1.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority
1.	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management

	Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
1.	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
1.	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
1.	The validity of EC will be for 5 years. However, the PP may apply for extension of EC with revised mining plan before expiry of 5 years hence.
Air quality monitoring and mitigation measure	
1.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Online ambient air quality monitoring station/stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB
1.	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
1.	Transportation of coal, to the extent if permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
1.	Major approach roads shall be black topped and properly maintained.
1.	PP to install solar lights along the road used for transportation of coal to avoid the accidents at night and also seek its maintenance.
1.	The transportation of coal shall be carried out as per the provisions and route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed that the impact of sound, dust and accidents could be appropriately mitigated.
1.	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
1.	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
1.	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.
1.	Adequate number of Fog canon (mist sprayer) shall be installed to reduce the impact of air pollution at dust generating sources with time bound action plan.
1.	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.

1.	Post environmental closure third party monitoring by reputed instituted in air quality, water, land & soil etc shall be carried out and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to IRO, MoEF&CC for compliance. The data used for analysis shall be obtained from continuous AQMS, site specific water regime. Also third party shall analyses the implementation of river diversion, meeting to the requirement of project report.
Water quality monitoring and mitigation measures	
1.	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
1.	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
1.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
1.	Monitoring of water quality upstream and downstream of river including ponds, lakes, tanks shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
1.	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
1.	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
1.	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff
1.	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
1.	Industrial waste water from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste water.
1.	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
1.	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction

	of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
1.	The project proponent shall take all precautionary measures to ensure reverian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
1.	Domestic water shall be providing to the residents/villages which are coming under the zone of influence of the project due to ground water extraction by installing a RO plant with proper supply line and Taps within 2 years
1.	No obselete technologies for sewage treatment shall be implemented. Construction of Sewage Treatment Plant with latest technology should be completed within 2 years and treated water shall be reused for plantation. CTE and CTO of STP shall be obtained as per the norms.
Noise and Vibration monitoring and prevention	
1.	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
1.	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.
Mining Plan	
1.	5- Star Rating is mandatory to obtaine certification as per guidelines of Mininstry of Coal
1.	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
1.	No change in mining method i.e. UG to OC, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
1.	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
1.	Underground work place environmental conditions shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
1.	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.
1.	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
1.	Tranportation by Railway Siding shall be developed to avoid transportation by Road
Land Recalmtion	
1.	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional

	Office (RO).
1.	Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
1.	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
1.	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.
1.	A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
1.	Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine.
1.	Native tree species shall be selected and planted over areas affected by subsidence.
1.	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.
Public hearing and Human health issues	
1.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
1.	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
1.	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
1.	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
1.	Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
1.	Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
1.	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are

	surrounded by the mine lease area’.
1.	PP to conduct need based assessment survey of the area to for in order to decide the activities to be carried under the CSR and to provide detail of the activity carried out with adequate budgetary provision and time bound action plan.
1.	PP should conduct epidemiology study to (analysis of the distribution, patterns and determinants of health and disease conditions in defined populations).
1.	Permanent Health care facilities of Hospital should be established within 5 km of project boundary for the local people.
1.	PP must ensure an emergency action plan during pandemic in order to provide assistance to the nearby villages located within the 10 km radius buffer zone (If required)
1.	PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone with time bound action plan
1.	PP to take measure for installation of Renewable Energy sources in nearby area falling within 10 km radius
Corporate Environment Responsibility	
1.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
1.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
1.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
1.	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
1.	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non- compliance or infringement should be reported to the concerned authority
Miscellaneous	
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent’s website permanently.
1.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

1.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
1.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
1.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
1.	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
1.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
1.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
1.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
1.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
1.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
1.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
1.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
1.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
1.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.
1.	Compensation of the land acquired for the project shall be settled as per the R&R Policy. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
1.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
1.	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and

keeping the noise levels well within the prescribed limits for day light/night hours

3.6. Agenda Item No 6:

3.6.1. Details of the proposal

Ausgram - II Sand Mine (MIN_EBUR_24) by WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/468104/2024	2N-506/2023(E)	28/04/2024	Mining of minerals (1(a))

3.6.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

Deliberations of SEAC 1 :

- The SEAC scrutinized the documents submitted by the PP in the 40th meeting of SEAC, WB (2023-2026) held on 08.06.2024.
- The SEAC scrutinized the documents submitted by the PP in the 40th meeting of SEAC, WB (2023-2026) held on 08.06.2024 and after careful consideration and detailed deliberation the committee **recommended the proposed project for Environmental Clearance** with the conditions that the following should be submitted along with the six monthly compliance report:
 - 1) Monthly monitoring of base flow level at four points of the project should be conducted by installing piezometer and to be reported in the six monthly compliance report.
 - 2) Stipulated plantation should preferably be done adjacent to the project. If not possible due to unavailability of suitable land, plantation may be done at other location in the same block. The particular plantation area should be dedicated and marked for the particular project and to be certified by the respective BDO.
 - 3) Sieve analysis report for grain size distribution should be provided along with six monthly compliance report.
 - 4) Status of the need-based activities to be reported during six monthly progress report. The entire need-based EMP should be completed within first two years of the project period. The planned expenditure for components like need-based activities may be derived based on the project cost. Proper documents should be submitted along with the six-monthly compliance report.
 - 5) Transportation plan should be provided in six monthly compliance report.
 - 6) Basic amenities, safety and occupational health examinations for labourers to be provided along with six monthly compliance reports.
 - 7) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Geotagged photographs of actual plantation done to be submitted along with six monthly compliance reports. Credible document regarding plantation by the Forest department on behalf of the project proponent should be submitted.
 - 8) Studies on the biotic components of the river and the impact of sand mining on these components should be submitted.
 - 9) Bank line monitoring report should be submitted along with the six-monthly progress reports.

Date of SEAC 2 :18/05/2024

Deliberations of SEAC 2 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- The SEAC scrutinized the documents submitted by the PP in the 38th meeting of SEAC, WB held on 18.05.2024 and after careful consideration and detailed deliberation the committee observed that the PP has not submitted proper reply to all the ToR points, especially point no. D of the additional ToR.
- Also the SEAC recommended that the following documents should be submitted:-

1. Details of project cost. The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
2. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region.

The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

3.6.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/468104/2024** dated **28 April 2024** along with copies of EIA/EMP seeking environment clearance under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006.

The PP obtained ToR vide No. 2529/EN/T-II-1/518/2023 dated 01.11.2023 issued by SEIAA, WB against Proposal No. SIA/WB/MIN/440218/2023.

SEAC, during its 40th meeting held on 08.06.2024, recommended the proposed project for Environmental Clearance with additional conditions.

PROJECT DETAILS

The project of M/s. West Bengal Mineral Development and Trading Corporation Limited located is as follows :

S. No.	State	District
(1)	West Bengal	Purba Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/468104/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and decided that the application for Ausgram - II Sand Mine (MIN_EBUR_24) over an area of 9.15 ha (22.61 acres) on the Ajay River at Plot No. 254(P), 251(P), 201(P) & 263(P), JL No. 36, Mouza Malocha, P.S.: Ausgram, Dist: Purba Bardhaman, West Bengal by M/s. West Bengal Mineral Development and Trading Corporation Limited. falling within the DSR potential zone code PO_BH_BL_AJ_50_51_53 is accepted with the conditions recommended by SEAC with the additional condition that the validity of EC will be for 5 years. However, the PP may apply for extension of EC with revised mining

plan before expiry of 5 years hence.

3.6.4. Recommendation of SEIAA

Approved

3.6.5. Details of Environment Conditions

3.6.5.1. Specific

N/A

3.6.5.2. Standard

1(a)	Mining of minerals
Statutory compliance	
1.	The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project
1.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
1.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
1.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
1.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority
1.	Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
1.	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
1.	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
1.	The validity of EC will be for 5 years. However, the PP may apply for extension of EC with revised mining plan before expiry of 5 years hence.
Air quality monitoring and mitigation measure	
1.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone

	for monitoring of pollutants, namely particulates, SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Online ambient air quality monitoring station/stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB
1.	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
1.	Transportation of coal, to the extent if permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
1.	Major approach roads shall be black topped and properly maintained.
1.	PP to install solar lights along the road used for transportation of coal to avoid the accidents at night and also seek its maintenance.
1.	The transportation of coal shall be carried out as per the provisions and route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed that the impact of sound, dust and accidents could be appropriately mitigated.
1.	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
1.	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
1.	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.
1.	Adequate number of Fog canon (mist sprayer) shall be installed to reduce the impact of air pollution at dust generating sources with time bound action plan.
1.	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
1.	Post environmental closure third party monitoring by reputed instituted in air quality, water, land & soil etc shall be carried out and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to IRO, MoEF&CC for compliance. The data used for analysis shall be obtained from continuous AQMS, site specific water regime. Also third party shall analyses the implementation of river diversion, meeting to the requirement of project report.
Water quality monitoring and mitigation measures	
1.	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
1.	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment,

	Forest and Climate Change shall also be referred in this regard for its compliance.
1.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
1.	Monitoring of water quality upstream and downstream of river including ponds, lakes, tanks shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
1.	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
1.	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
1.	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff
1.	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
1.	Industrial waste water from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste water.
1.	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
1.	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
1.	The project proponent shall take all precautionary measures to ensure reverian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A reverian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
1.	Domestic water shall be providing to the residents/villages which are coming under the zone of influence of the project due to ground water extraction by installing a RO plant with proper supply line and Taps within 2 years
1.	No obsolete technologies for sewage treatment shall be implemented. Construction of Sewage Treatment Plant with latest technology should be completed within 2 years and treated water shall be reused for plantation. CTE and CTO of STP shall be obtained as per the norms.

Noise and Vibration monitoring and prevention	
1.	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
1.	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.
Mining Plan	
1.	5- Star Rating is mandatory to obtaine certification as per guidelines of Mininstry of Coal
1.	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
1.	No change in mining method i.e. UG to OC, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
1.	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
1.	Underground work place environmental conditions shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
1.	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.
1.	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
1.	Tranportation by Railway Siding shall be developed to avoid transportation by Road
Land Recalamation	
1.	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
1.	Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
1.	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
1.	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas

	Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.
1.	A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
1.	Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine.
1.	Native tree species shall be selected and planted over areas affected by subsidence.
1.	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.
Public hearing and Human health issues	
1.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
1.	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
1.	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
1.	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
1.	Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
1.	Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
1.	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
1.	PP to conduct need based assessment survey of the area to for in order to decide the activities to be carried under the CSR and to provide detail of the activity carried out with adequate budgetary provision and time bound action plan.
1.	PP should conduct epidemiology study to (analysis of the distribution, patterns and determinants of health and disease conditions in defined populations).
1.	Permanent Health care facilities of Hospital should be established within 5 km of project boundary for the local people.
1.	PP must ensure an emergency action plan during pandemic in order to provide assistance to the nearby villages located within the 10 km radius buffer zone (If required)

1.	PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone with time bound action plan
1.	PP to take measure for installation of Renewable Energy sources in nearby area falling within 10 km radius
Corporate Environment Responsibility	
1.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
1.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
1.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
1.	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
1.	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non- compliance or infringement should be reported to the concerned authority
Miscellaneous	
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
1.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
1.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
1.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
1.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
1.	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
1.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the

	State Government.
1.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
1.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
1.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
1.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
1.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
1.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
1.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
1.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.
1.	Compensation of the land acquired for the project shall be settled as per the R&R Policy. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
1.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
1.	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours

3.7. Agenda Item No 7:

3.7.1. Details of the proposal

Residential Complex "Utsodhara HIG - 1" by AMBUJA NEOTIA TEESTA DEVELOPMENT PRIVATE LIMITED located at JALPAIGURI, WEST BENGAL			
Proposal For		Amendment in EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)

SIA/WB/INFRA2/474274/2024	EN/T-II-1/041/2023	21/05/2024	Building / Construction (8(a))
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3.7.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :29/05/2024

Deliberations of SEAC 1 :

- Based on the submission made by the PP, the SEAC recommended the proposed amendment of Environmental Clearance issued vide EC Identification No. EC24B038WB160795 dated 14.03.2024 for change in project cost from Rs.102 crores to Rs.280.49 crores along with the revised need-based outlay from Rs. 150 lacs to Rs.420 lacs. All the conditions mentioned in the Environmental Clearance shall remain unaltered.

3.7.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. SIA/WB/INFRA2/474274/2024 dated 21 May 2024 seeking amendment in environment clearance under the provisions of the EIA Notification, 2006 for the above-mentioned project.

Earlier the PP obtained Environmental Clearance issued by SEIAA, WB vide EC Identification No. EC24B038WB160795 dated 14.03.2024.

As submitted by the PP, the proposal for which EC already obtained and the proposed amendment of the project is as follows :

	As per EC dated 14.03.2024 (existing)	Proposed amendment	Remarks
Project Cost (Rs.)	102 crores	280.49 Crores	Cost of the project has been reassessed in terms of the updated cost of land, construction materials as well as plant and machineries.
Amount to be spent for need based activities	Rs. 150 lacs	Rs.420 lacs	Revised need-based activity outlay

SEAC, during its 39th meeting held on 29.05.2024, recommended the proposed amendment of Environmental Clearance issued vide EC Identification No. EC24B038WB160795 dated 14.03.2024 for change in project cost from Rs.102 crores to Rs.280.49 crores along with the revised need-based outlay from Rs. 150 lacs to Rs.420 lacs. All the conditions mentioned in the Environmental Clearance shall remain unaltered.

PROJECT DETAILS

The project of M/s. Ambuja Neotia Teesta Development Private Limited located is as follows :

S. No.	State	District
(1)	West Bengal	Jalpaiguri

The salient features of the project submitted by the project proponent is available under online proposal no. SIA/WB/INFRA2/474274/2024 in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and observed that as per the amendment proposed, the project cost has increased more than 2.5 times without any justification behind such change. Therefore SEIAA decided to seek clarification from the PP as to how the project cost has now increased as proposed. PP should submit a comparative rate chart of the break up in the project cost of the earlier project for which EC has already been issued and the present proposal. PP should submit a specific declaration whether any increase in built up area is proposed or not.

3.7.4. Recommendation of SEIAA

Deferred for ADS

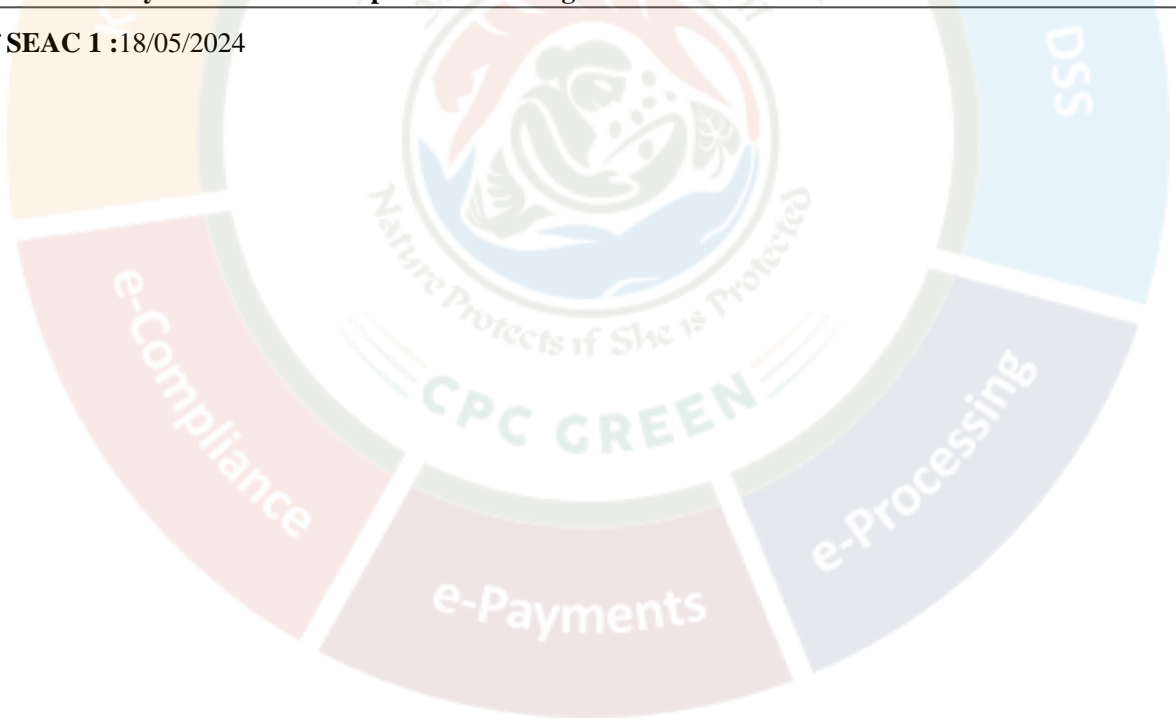
3.8. Agenda Item No 8:

3.8.1. Details of the proposal

Greenfield Project for manufacturing of 300000 TPA Cold Rolling / Galvanized Plane / Galvanized corrugated Sheet & Coil / Color Coated Sheets by M/S CAPTAIN BUILDING PRODUCTS PRIVATE LIMITED at Garbeta a- III, Garbeta Industrial Park, Dist. Paschim Midnapur, State West Bengal by RAMESH KUMAR JHUNJHUNWALA located at MEDINIPUR WEST, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/IND1/472508/2024	2N-86/2024(E)	11/05/2024	Metallurgical Industries (ferrous and non ferrous) (3(a))

3.8.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :18/05/2024



Deliberations of SEAC 1 :

- During presentation, the PP requested for exemption of public hearing considering the process involves cold rolling mill operations without having any emission source and generation of process effluent for which EC is applicable.
- Based on the application made, documents uploaded / submitted, and the presentation made by the PP/Consultant, the SEAC made the following observations:

Mandatory Documents

- 1) Ground water permission for the project from the competent authority.
- 2) Detailed lay out plan of the project showing existing buildings (if any), proposed buildings, roads, greenbelt, and all external services clearly marked in the drawing. Land use break up showing each facilities / unit operations including green belt both in sqm. and percentage adding upto 100%.
- 3) A Fire Safety Certificate from the Competent Authority.

Rainwater harvesting

- 4) Proposal for rainwater harvesting should be submitted. Basis of the sizing of RWH tank should be provided.

Water and waste water

- 5) Details of effluent treatment plant indicating expected quality of the raw effluent and treated effluent.
- 6) Subsurface hydro-geological study report of the area including ground water contour mapping, which should include the calculation of the quantity of groundwater flowing below the project area and the percentage of groundwater that will be abstracted from that portion of the aquifer. Location of boreholes should be provided on a map along with pumping schedule of each well.
- 7) Piezometer with automatic groundwater level measurement and recording system connected to digital display board.
- 8) Complete water balance for the project, both monsoon and non-monsoon.

Air

- 9) Details of emission control system for galvanizing plant.
- 10) Details of emission control measures in colour coating area.

Greenbelt

- 11) Tree plantation plan to be submitted. Inventory of existing trees and plan for their protection should be mentioned, especially if land filling is undertaken.
- 12) Top soil in the project area shall be conserved and reused on completion of construction to the maximum extent possible, in compliance with section 12.8.4, Part 11, NBC 2016.

Need based EMP

- 13) Need-based activities as per the Office Memorandum of MoEF& CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consent from the beneficiaries should be submitted.

Misc.

- 14) C&D waste, if and as applicable, to be handled as per relevant rules.
- 15) Risk assessment and Disaster Management Plan should be submitted.

3.8.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/IND1/472508/2024** dated **11 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **3(a) Metallurgical Industries (ferrous and non ferrous)** projects under Category "**B1**" of EIA Notification 2006.

SEAC, during its 38th meeting held on 18.05.2024, recommended Terms of Reference for EIA study of the proposed project with additional terms / conditions. Status of the compliance of the additional conditions stipulated may be

furnished along with the application for Environmental Clearance.

PROJECT DETAILS

The project of **Ramesh Kumar Jhunjunwala** located is as follows :

S. No.	State	District
(1)	West Bengal	Paschim Midnapur

The salient features of the project submitted by the project proponent are available under online proposal no. **SIA/WB/IND1/472508/2024** PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that all proposed need-based activities and tree plantation in the EIA report should be completed within first two years of the project.

3.8.4. Recommendation of SEIAA

Approved

3.8.5. Details of Terms of Reference

3.8.5.1. Specific

A. STANDARD TERMS OF REFERENCE

1. **Executive Summary (Annexure – 1)**
2. **Introduction**
 - i. Details of the EIA Consultant including NABET accreditation
 - ii. Information about the project proponent
 - iii. Importance and benefits of the project
3. **Project Description**
 - i. Cost of project and time of completion.
 - ii. Products with capacities for the proposed project.
 - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
 - iv. List of raw materials required and their source along with mode of transportation.
 - v. Other chemicals and materials required with quantities and storage capacities
 - vi. Details of Emission, effluents, hazardous waste generation and their management.
 - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
 - viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
 - ix. Hazard identification and details of proposed safety systems.
 - x. Expansion/modernization proposals:
 - a) Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing (existing) operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b) In case the existing project has not obtained environmental clearance, reasons for not taking EC

under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be
- x. incorporated. Land use details of the study area
- xi. Geological features and Geo-hydrological status of the study area shall be included.
- xii. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xiii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiv. R&R details in respect of land in line with state Government policy.

5. Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6. Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.

- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7. Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum- rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9. Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Environment Management Plan (EMP)

- i. The project proponent should submit the proposed EMP on six monthly basis. The office Memorandum issued by the MoEF&CC vide F.No.22-65/2017-IA, III dated 30/09/2020 should be strictly followed.

12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

13. A tabular chart with index for point wise compliance of above TOR.

Annexure – 1

Annexure – 1

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

1.
 - 1) Project name and location (Village, District, State, Industrial Estate (if applicable).
 - 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.
 - 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
 - 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
 - 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
 - 6) Capital cost of the project, estimated time of completion.
 - 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km. other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary).
 - 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and

fauna, socio-economic condition of the nearby population.

9) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.

10) Likely impact of the project on air, water, land, flora-fauna and nearby population.

11) Emergency preparedness plan in case of natural or in plant emergencies.

12) Issues raised during public hearing (if applicable) and response given.

13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA.III dated 30.09.2020 with proposed expenditure.

14) Occupational Health Measures.

15) Post project monitoring plan.

A. Additional Terms of Reference imposed by SEAC –

Mandatory Documents

1) Ground water permission for the project from the competent authority.

2) Detailed lay out plan of the project showing existing buildings (if any), proposed buildings, roads, greenbelt, and all external services clearly marked in the drawing. Land use break up showing each facilities / unit operations including green belt both in sqm. and percentage adding upto 100%.

3) A Fire Safety Certificate from the Competent Authority.

Rainwater harvesting

4) Proposal for rainwater harvesting should be submitted. Basis of the sizing of RWH tank should be provided.

Water and waste water

5) Details of effluent treatment plant indicating expected quality of the raw effluent and treated effluent.

6) Subsurface hydro-geological study report of the area including ground water contour mapping, which should include the calculation of the quantity of groundwater flowing below the project area and the percentage of groundwater that will be abstracted from that portion of the aquifer. Location of boreholes should be provided on a map along with pumping schedule of each well.

7) Piezometer with automatic groundwater level measurement and recording system connected to digital display board.

8) Complete water balance for the project, both monsoon and non-monsoon.

Air

9) Details of emission control system for galvanizing plant.

10) Details of emission control measures in colour coating area.

Greenbelt

11) Tree plantation plan to be submitted. Inventory of existing trees and plan for their protection should be mentioned, especially if land filling is undertaken.

12) Top soil in the project area shall be conserved and reused on completion of construction to the maximum extent possible, in compliance with section 12.8.4, Part 11, NBC 2016.

Need based EMP

13) Need-based activities as per the Office Memorandum of MoEF& CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consent from the beneficiaries should be submitted.

Misc.

14) C&D waste, if and as applicable, to be handled as per relevant rules.

15) Risk assessment and Disaster Management Plan should be submitted.

The standard ToR of MoEF&CC – along with the ToR proposed by the proponent and the information/

	documents/ clarifications/ studies listed hereinabove, shall form the ToR for EIA study of the proposed project. While applying for environmental clearance, the proponent shall upload in the PARIVESH portal, the EIA/EMP report along with the documents/ clarifications sought above. All the documents shall be duly signed both by the project proponent and the environmental consultant.
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A. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON-FERROUS)

1.	<ol style="list-style-type: none"> 1) Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance). 2) Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc. 3) Details on installation/activation of opacity meters with recording with proper calibration system 4) Details on toxic metals including mercury, arsenic and fluoride emissions 5) Details on stack height requirement for integrated steel 6) Details on ash disposal and management -Non-ferrous metal 7) Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc. 8) Raw materials substitution or elimination 9) Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation 10) Details on Holding and de-gassing of molten metal from primary and secondary aluminium, materials pre-treatment, and from melting and smelting of secondary aluminium 11) Details on solvent recycling 12) Details on precious metals recovery 13) Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization. 14) Details on toxic metal content in the waste material and its composition and end use (particularly of slag). 15) Trace metals Mercury, arsenic and fluoride emissions in the raw material. 16) Trace metals in waste material especially slag. 17) Plan for trace metal recovery 18) Trace metals in water
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3.8.5.2. Standard

3(a)	Metallurgical Industries (ferrous and non ferrous)
Preliminary requirements	
1.	EIA/EMP report cover page shall consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with QCI/NABET/NABL accreditation certificate detail.
1.	Besides, following points shall be compiled as per QCI/NABET norms: a. Disclaimer by the EIA consultant. b. Declaration by the Functional Area Experts contributed to the EIA study and declaration by the head of the accredited consultant organization/authorized person. c. Undertaking by the project proponent owning the contents (information and data) of the EIA/EMP report. d. Undertaking by the EIA consultant regarding compliance of ToR issued by MoEF&CC. e. Consultant shall submit the Plagiarism Certificate for the EIA/EMP Report.
Executive Summary	
1.	Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.
1.	Point wise compliance to the ToR issued by MoEF&CC.

1.	Name of the project along with applicable schedule and category as per EIA, 2006.
1.	Location and accessibility
1.	Resource requirements (Land; water; fuel; manpower)
1.	Operational activity
1.	Key pollution concerns
1.	Ambient air quality
1.	Ambient Noise quality
1.	Traffic study
1.	Surface water quality
1.	Ground water quality
1.	Soil quality
1.	Biological Environment
1.	Land use
1.	Socio-economic environment
1.	Impact on ambient air quality
1.	Impact on ambient noise quality
1.	Impact on road and traffic
1.	Impact on surface water resource and quality
1.	Impact on ground water resource and quality
1.	Impact on terrestrial and aquatic habitat
1.	Impact on socio-economic environment
1.	null
1.	Ambient air, noise, water and soil quality
1.	Noise quality management plan
1.	Emission and discharge from the plant
1.	Green Belt
1.	Social Parameters

1.	Risk assessment
1.	Public consultation
1.	Action plan to address the issues raised during public consultation as per MoEF&CC O.M. dated 30/09/2020
1.	null
1.	Air quality management plan
1.	Noise quality management plan
1.	Solid and hazardous waste management plan
1.	Effluent management plan
1.	Storm water management plan
1.	Occupational health and safety management plan
1.	Green belt development plan
1.	Socio-economic management plan
1.	Project cost and EMP implementation budget.
Introduction	
1.	Background about the project
1.	Need of the project
1.	Purpose of the EIA study
1.	Scope of the EIA study
Project description	
1.	Location of the project site covering village, Taluka/Tehsil, District and State.
1.	Site accessibility
1.	A digital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
1.	Latest High-resolution satellite image data having 1 m - 5 m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100 m all around the project location.
1.	Environment settings of the site and its surrounding along with map.
1.	A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.

1.	In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
1.	In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
1.	In case of canal/ nala/ seasonal drain and any other water body passing through project site, the PP shall submit the suitable steps /conservation plan/mitigation measures along with contouring, Run -off calculations, disposal etc. A robust and full proof Drainage Conservation scheme to protect the natural drainage/water bodies and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be provided in the report.
1.	Type of land, land use of the project site needs to be submitted.
1.	Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
1.	Project proponent shall prepare Engineering layout plan showing all internal roads minimum 6 m width and 9 m turning radius for smooth traffic flow inside including fire tender as per NBC. Road network shall connect all service areas in layout. This drawing shall include area statement showing plot area, area under roads, parking, green belt with calculations and % with respect to plot area of project site and proper indexing. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
1.	Project proponent shall submit contour map of project site along with drainage disposal system with calculations and drawings supported with proper indexing including Rain Water Harvesting details with calculations mentioning about GW recharge along with relevant drawing.
1.	A detailed report covering all aspects of Fire Safety Management and Fire Emergency Plan shall be submitted.
1.	Details of drone survey for the site, needs to be included in report and presented before the EAC during appraisal of the project.
1.	Status of Forest Clearance for the use of forest land shall be submitted.
1.	Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10 km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.
1.	The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.
1.	Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna along with budget and action plan, if any exists in the study area.
1.	Products with capacities in Tons per Annum for the proposed project.
1.	If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
1.	Site preparatory activities.

1.	List of raw materials required and their source along with mode of transportation.
1.	Other than raw materials, other chemicals and materials required with quantities and storage capacities.
1.	Manufacturing process details along with process flow diagram of proposed units.
1.	Consolidated materials and energy balance for the project.
1.	Total requirement of surface/ ground water and power with their respective sources, status of approval.
1.	Water balance diagram
1.	Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
1.	Man-power requirement.
1.	Cost of project and scheduled time of completion.
1.	In case of expansion projects, project proponent shall submit structural stability certificate showing whether existing structure withstand for proposed expansion activity.
1.	Brief on present status of compliance (Expansion/modernization proposals) a. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out. b. Cumulative Impact Assessment need to be carried out by greenfield projects considering the nearby industries. c. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next two years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source. d. Copy of all the Environment Clearance(s) including Amendments/validity of extension/transfer of EC, there to obtained for the project from MoEF&CC/SEIAA shall be attached as Annexures. A Certified Compliance Report (CCR) of the Integrated Regional Office of the Ministry of Environment, Forest and Climate Change/ or concerned authority as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022 on the status of compliance of conditions stipulated in all the existing environment clearances including amendments shall be provided. A Certified Compliance Report (CCR) issued by the concerned Authority shall be valid for a period of one year from the date of inspection. e. In case the existing project has not obtained Environment Clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. A proper justification needs to be submitted along with documentary proof. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 1994 or 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of CTO from the Regional Office of the SPCB shall be submitted, as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022. CCR on CTO conditions issued by the concerned SPCBs/PCCs shall be valid for a period of one year from the date of inspection of the project.

Description of the Environment

1.	Study period														
1.	<p>Approach and methodology for data collection as furnished below</p> <table border="1"> <thead> <tr> <th rowspan="2">Attributes</th> <th colspan="2">Sampling</th> <th rowspan="2">Remarks</th> </tr> <tr> <th>Network</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td colspan="4">Air Environment</td> </tr> <tr> <td> Micro-Meteorological <ul style="list-style-type: none"> Wind speed (Hourly) </td> <td> Minimum 1 site in the project impact area </td> <td> hourly continuous </td> <td> IS 5182 Part 1-20 <ul style="list-style-type: none"> Site specific primary </td> </tr> </tbody> </table>	Attributes	Sampling		Remarks	Network	Frequency	Air Environment				Micro-Meteorological <ul style="list-style-type: none"> Wind speed (Hourly) 	Minimum 1 site in the project impact area	hourly continuous	IS 5182 Part 1-20 <ul style="list-style-type: none"> Site specific primary
Attributes	Sampling		Remarks												
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<ul style="list-style-type: none"> • Wind direction • Dry bulb temperature • Wet bulb temperature • Relative humidity • Rainfall • Solar radiation • Cloud cover • Environmental • Lapse Rate 			<p>data is essential</p> <ul style="list-style-type: none"> • Secondary data from IMD, New Delhi • CPCB guidelines to be considered.
<p>Pollutants</p> <ul style="list-style-type: none"> • PM10 • SO2 • NOx • CO • HC • Other parameters relevant to the project and topography of the area 	<p>At least 8-12 locations</p>	<p>As per National Ambient Air Quality Standards, CPCB Notification.</p>	<ul style="list-style-type: none"> • Sampling as per CPCB guidelines • Collection of AAQ data (except in monsoon season) • Locations of various stations for different parameters should be related to the characteristic properties of the parameters. • The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests, • Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAAQM Notification of 16/11/2009 along with min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
<p>Noise</p>			
<p>Hourly equivalent noise levels</p>	<p>At least 8-12 locations</p>	<p>s per CPCB norms</p>	

Water	
Parameters for water quality <ul style="list-style-type: none"> pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity Total nitrogen, total phosphorus, DO, BOD, COD, Phenol Heavy metals Total coliforms, faecal coliforms Phyto plankton Zoo plankton 	Samples for water quality should be collected and analyzed as per: <ul style="list-style-type: none"> IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents Standard methods for examination of water and wastewater analysis published by American Public Health Association
For River Bodies <ul style="list-style-type: none"> Total Carbon pH Dissolved Oxygen Biological Oxygen Demand Free NH4 Boron Sodium Absorption Ratio Electrical Conductivity 	Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies <ul style="list-style-type: none"> Yield of water sources to be measured during critical season Standard methodology for collection of surface water (BIS standards)
For Ground Water	Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and shall be included.
Traffic Study	
Type of vehicles <ul style="list-style-type: none"> Frequency of vehicles for transportation of materials Additional traffic due to proposed project 	Land Environment
Soil <ul style="list-style-type: none"> Particle size distribution Texture pH Electrical conductivity Cation exchange capacity Alkali metals Sodium Absorption Ratio (SAR) Permeability Water holding capacity Porosity 	Soil samples be collected as per BIS specifications

<p>Land use/Landscape</p> <ul style="list-style-type: none"> • Location code • Total project area • Topography • Drainage (natural) <p>Cultivated, forest, plantations, water bodies, roads and settlements</p>	
<p>Biological Environment</p>	
<p>1. Aquatic</p> <ul style="list-style-type: none"> • Primary productivity • Aquatic weeds • Enumeration of phyto plankton, zoo plankton and benthos • Fisheries • Diversity indices • Trophic levels • Rare and endangered species • Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ) <p>2. Terrestrial</p> <ul style="list-style-type: none"> • Vegetation-species list, economic importance, forest produce, medicinal value • Importance value index (IVI) of trees • Fauna • Avi fauna • Rare and endangered species • Sanctuaries / National park / Biosphere reserve • Migratory routes 	<ul style="list-style-type: none"> • Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. • Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. • For forest studies, direction of wind should be considered while selecting forests. • Secondary data to collect from Government offices, NGOs, published literature.
<p>socio-economic</p>	
<p>Demographic structure</p> <ul style="list-style-type: none"> • Infrastructure resource base • Economic resource base • Health status: Morbidity pattern • Cultural and aesthetic attributes. 	<p>Socio-economic survey is based on proportionate, stratified and random sampling method.</p> <ul style="list-style-type: none"> • Primary data collection through questionnaire • Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. agencies

- Education

Approach and methodology for data collection as furnished below

Attributes	Sampling		Remarks
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Air Environment			
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Pollutants <ul style="list-style-type: none"> • PM10 • SO2 • NOx • CO • HC • Other parameters relevant to the project and topography of the area 	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	<ul style="list-style-type: none"> • Sampling as per CPCB guidelines • Collection of AAQ data (except in monsoon season) • Locations of various stations for different parameters should be related to the characteristic properties of the parameters. • The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests, • Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAAQM Notification of 16/11/2009 along with min., max., average and 98% values for each of the

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Noise			
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Parameters for water quality	<ul style="list-style-type: none"> pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity Total nitrogen, total phosphorus, DO, BOD, COD, Phenol Heavy metals Total coliforms, faecal coliforms Phyto plankton Zoo plankton 		
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For River Bodies	<ul style="list-style-type: none"> Total Carbon pH Dissolved Oxygen Biological Oxygen Demand Free NH4 Boron Sodium Absorption Ratio Electrical Conductivity 	<p>Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies</p>	<ul style="list-style-type: none"> Yield of water sources to be measured during critical season Standard methodology for collection of surface water (BIS standards)
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Traffic Study			
Type of vehicles	Land Environment		
<ul style="list-style-type: none"> Frequency of vehicles for transportation of materials Additional traffic due to proposed project 			

<p>Soil</p> <ul style="list-style-type: none"> • Particle size distribution • Texture • pH • Electrical conductivity • Cation exchange capacity • Alkali metals • Sodium Absorption Ratio (SAR) • Permeability • Water holding capacity • Porosity 	<p>Soil samples be collected as per BIS specifications</p>
<p>Land use/Landscape</p> <ul style="list-style-type: none"> • Location code • Total project area • Topography • Drainage (natural) • Cultivated, forest, plantations, water bodies, roads and settlements 	
<p>Biological Environment</p>	
<p>1. Aquatic</p> <ul style="list-style-type: none"> • Primary productivity • Aquatic weeds • Enumeration of phyto plankton, zoo plankton and benthos • Fisheries • Diversity indices • Trophic levels • Rare and endangered species • Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ) <p>2. Terrestrial</p> <ul style="list-style-type: none"> • Vegetation-species list, economic importance, forest produce, medicinal value • Importance value index (IVI) of trees • Fauna • Avi fauna • Rare and endangered species • Sanctuaries / 	<ul style="list-style-type: none"> • Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. • Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. • For forest studies, direction of wind should be considered while selecting forests. • Secondary data to collect from Government offices, NGOs, published literature.

	<p>National park / Biosphere reserve</p> <ul style="list-style-type: none"> • Migratory routes 													
	socio-economic													
	<p>Demographic structure</p> <ul style="list-style-type: none"> • Infrastructure resource base • Economic resource base • Health status: Morbidity pattern • Cultural and aesthetic attributes. • Education 	<p>Socio-economic survey is based on proportionate, stratified and random sampling method.</p> <ul style="list-style-type: none"> • Primary data collection through questionnaire • Secondary data from census records, statistical hand books, topo sheets, health records and relevant official records available with Govt. agencies 												
1.	<p>Interpretation of each environment attribute shall be enumerated and summarized as given below: • Ambient air quality • Ambient Noise quality • Surface water quality • Ground water quality • Soil quality • Biological Environment • Land use • Socio-economic environment</p>													
1.	<p>The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples.</p>													
<p>Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)</p>														
1.	<p>Identification of potential impacts in the form of a matrix for the construction and operation phase for all the environment components</p> <table border="1"> <thead> <tr> <th>Activity</th> <th>Environment</th> <th>Ecological</th> <th>Socio-economic</th> </tr> </thead> <tbody> <tr> <td>Construction phase</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Operation phase</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Activity	Environment	Ecological	Socio-economic	Construction phase				Operation phase			
Activity	Environment	Ecological	Socio-economic											
Construction phase														
Operation phase														
1.	<p>Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase • Details of stack emissions from the existing as well as proposed activity. • Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period • Impact on ground level concentration, under normal, abnormal and emergency conditions. Measures to handle emergency situations in the event of uncontrolled release of emissions.</p>													
1.	<p>Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase</p>													
1.	<p>Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase</p>													
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1.	<p>Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase</p>													

1.	Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
1.	Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
1.	Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
1.	Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase
1.	Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase

Analysis of Alternatives (Technology & Site)

1.	No project scenario
1.	Site alternative
1.	Technical and social concerns
1.	Conclusion

Environmental Monitoring Program

1.	Details of the Environment Management Cell
1.	Performance monitoring schedule for all pollution control devices shall be furnished.

1.	<p>Corporate Environment Policy</p> <ol style="list-style-type: none"> a. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report. b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA. c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given. Page 9 of 10 d. Does the company have system of reporting of non compliances / violations of environment norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report
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1.	<p>Action plan for post-project environment monitoring matrix:</p> <table border="1"> <thead> <tr> <th>Activity</th> <th>Aspect</th> <th>Monitoring Parameter</th> <th>Location</th> <th>Frequency</th> <th>Responsibility</th> </tr> </thead> <tbody> <tr> <td colspan="6">Construction phase</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6">Operation phase</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility	Construction phase												Operation phase											
Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility																										
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Additional Studies

1.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage after offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.						
1.	Details of adoption/ implementation status/plan to achieve the goal of Glasgow COP26 Climate Submit with regard to enhance the non-fossil energy, use of renewable energy, minimization of net carbon emission and carbon intensity with long-term target of "net Zero" emission.						
1.	Implementation status/measures adopted for avoiding the generation of single used plastic waste.						
1.	In cases the project is located in Critically and Severely Polluted Areas, additional mitigation measures adopted and detailed action plan to be submitted in the EIA/EMP Report as per MoEF&CC O.M. No. 22-23/2028-IA.III dated 31/10/2019 and MoEF&CC O.M. No. 22-23/2028-IA.III dated 5/07/2022 has to be submitted.						
1.	Public consultation details (Entire proceedings as separate annexure along with authenticated English Translation of Public Consultation proceedings).						
1.	As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration. In this regard, time bound action plan as per the MoEF&CC Office Memorandum dated 30/09/2020 shall be submitted.						
1.	Summary of issues raised during public consultation along with action plan to address the same as per MoEF&CC O.M. dated 30/09/2020						
		Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)
	S.No	Name of the Activity	Physical Targets	1st	2nd	3rd	
1.							
1.	Risk assessment <ul style="list-style-type: none"> • Methodology • Hazard identification • Frequency analysis • Consequence analysis • Risk assessment outcome 						
1.	Emergency response and preparedness plan						
Project Benefits							
1.	Environment benefits						
1.	Social infrastructure						
1.	Employment and business opportunity						

1.	Other tangible benefits
Environment Cost Benefit Analysis	
1.	Net present value
1.	Internal rate of return
1.	Benefit cost ratio
1.	Cost effectiveness analysis
Environment Management Plan (Construction and Operation phase)	
1.	Air quality management plan
1.	Noise quality management plan
1.	Action plan for hazardous waste management
1.	Action plan for solid waste management
1.	Action plan for e-waste management.
1.	Action plan for plastic waste management, considering the Plastic Waste Management Rules 2016.
1.	Action plan for construction and demolition waste management.
1.	Effluent management plan
1.	Storm water management plan
1.	Rain water harvesting plan
1.	Plan for maximum usage of waste water/treated water in the Unit
1.	Occupational health and safety management plan
1.	Green belt development plan: An action plan for Green Belt development consisting of 3 tiers of plantations of native species all along the periphery of the project of adequate width shall be raised in 33% of total area with a tree density shall not less than 2500 per ha within a time frame of one year shall be submitted. Survival rate of green belt shall be monitored on periodic basis to ensure that survival rate not be less than 80 %.
1.	Socio-economic management plan
1.	Wildlife conservation plan (In case of presence of schedule I species)
1.	Total capital cost and recurring cost/annum for environment pollution control measures shall be included.
1.	Explore possibilities for recycling and reusing of treated water in the unit to reduce the freshwater demand and waste disposal.
1.	An Action Plan for improving the house-keeping activities in the raw material handling area need to be submitted

1.	Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
1.	Action plan to limit the dust emission from all the stacks below 30 mg/Nm ³ shall be furnished.
1.	Action plan for fugitive emission control in the plant premises shall be provided.
Conclusion of the EIA study	
1.	null
In addition to the above, any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.	
1.	null
Air cooled condensers shall be used in the power plant.	
1.	null
Details of Dry Ash handling system along with supplementary coal handling system shall be submitted.	
1.	null
Plan for transportation of coal shall be submitted.	
1.	null
Plan along with technical details of SCR shall be submitted.	
1.	null
In case of expansion project, Status of Ash Utilization of previous years (up to 5 years), action plan for 100% ash utilization along with timeline need to be submitted	
1.	null
null	
1.	A 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
1.	Plan for the implementation of the recommendations made for the proposed Unit in the Corporate Responsibility for Environmental Protection (CREP) guidelines.
1.	Plan for solid wastes utilization.
1.	Plan for utilization of energy in off gases (coke oven, blast furnace)
1.	System of coke quenching adopted with full justification.
1.	Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.

1.	Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
1.	Details on toxic content using Toxicity Characteristic Leaching Procedure (TCLP), composition and end use of slag.
1.	100 % dolo char generated in the plant shall be used to generate power.
1.	Fourth Hole fume extraction system shall be provided for SAF.WHR system shall be installed to recover sensible heat from flue gases of EAF. Provision for installation of jigging and briquetting plant to utilise the fines generated in the process.
1.	No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be provided.
1.	Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
1.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be submitted.
1.	Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm ³ shall be furnished.
1.	Action plan for 100 % solid waste utilization shall be submitted.
1.	PM (PM ₁₀ and P _{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM ₁₀ to be carried over.
1.	Iron ore/coal linkage documents along with the status of environment clearance of iron ore and coal mines, if applicable.
1.	Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact, if applicable.
1.	Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials, if applicable.
1.	All proposed need-based activities and tree plantation in the EIA report should be completed within first two years of the project.

3.9. Agenda Item No 9:

3.9.1. Details of the proposal

Environmental Clearance for proposed Strip Mill - 5,40,000 TPA, Steel Melting Shop (SMS) with Induction Furnace of capacity 8 x 25 T, Ladle Refining Furnace (LRF) - 2 x 30 T, Matching Caster – 2 Nos, Induction heater – 1X 80 TPH, Re heating Furnace 1X80 TPH , Slag Crusher 20 TPH & PGP of 12000Nm³ / h by M/S. SMEL Specialty Alloys Private Limited by SHYAMMETALICS SPECIALTY ALLOYS PRIVATE LIMITED located at PAS CHIM BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/IND1/470319/2024	2N-74/2024(E)	24/04/2024	Metallurgical Industries (ferrous and non ferrous) (3(a))

3.9.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

Deliberations of SEAC 1 :

- The SEAC scrutinized the documents submitted by the PP in the 40th meeting of SEAC, WB (2023-2026) held on 08.06.2024. After careful consideration and detailed deliberation, the committee **recommended the proposed project for Terms of Reference** with the additional condition that the conversion and mutation for the entire project area should be submitted along with the EC application.

Date of SEAC 2 :04/05/2024

Deliberations of SEAC 2 :

- Based on the application made, documents uploaded / submitted, and the presentation made by the PP/Consultant, the SEAC made the following observations:

Mandatory Documents

- 1) It is observed that the name of the PP mentioned in the application is M/s. Shyammetalics Specialty Alloys Private Limited. However, the proposal has been submitted on behalf of M/S. SMEL Specialty Alloys Private Limited. Clarification in this regard should be provided.
- 2) It is observed that the application has been made for two different plots which are separated from one another. A single plot specifying the project area should be submitted for EC application.
- 3) Mouza map along with dag nos. of the plot area and their present status of conversion and mutation in the name of the PP.

Water & waste water

- 4) Water supply permission for the entire quantity of 1004 KLD in the name of the PP. Groundwater abstraction should be minimized, if possible.
- 5) Subsurface hydro-geological study report of the area which should include the calculation of the quantity of groundwater flowing below the project area and what percentage of that water will be abstracted. Piezometer should be installed to monitor the water level, which is to be reported with the mandatory periodical compliance reports.
- 6) Water balance should be both for monsoon and for non-monsoon seasons.

The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

3.9.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/IND1/470319/2024** dated **24 April 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **3(a) Metallurgical Industries (ferrous and non ferrous)** projects under Category "**B1**" of EIA Notification 2006.

SEAC, during its 40th meeting held on 08.06.2024, recommended that Terms of Reference may be issued with additional condition that the conversion and mutation for the entire project area should be submitted along with the EC application.

PROJECT DETAILS

The project of **Shyammetalics Specialty Alloys Private Limited** located is as follows :

S. No.	State	District
(1)	West Bengal	Paschim Bardhaman

The salient features of the project submitted by the project proponent are available under online proposal no. **SIA/WB/IND1/470319/2024** PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved for ToR.

3.9.4. Recommendation of SEIAA

Approved

3.9.5. Details of Terms of Reference

3.9.5.1. Specific

N/A

3.9.5.2. Standard

3(a)	Metallurgical Industries (ferrous and non ferrous)
Preliminary requirements	
1.	EIA/EMP report cover page shall consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with QCI/NABET/NABL accreditation certificate detail.
1.	Besides, following points shall be compiled as per QCI/NABET norms: a. Disclaimer by the EIA consultant. b. Declaration by the Functional Area Experts contributed to the EIA study and declaration by the head of the accredited consultant organization/authorized person. c. Undertaking by the project proponent owning the contents (information and data) of the EIA/EMP report. d. Undertaking by the EIA consultant regarding compliance of ToR issued by MoEF&CC. e. Consultant shall submit the Plagiarism Certificate for the EIA/EMP Report.
Executive Summary	
1.	Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.
1.	Point wise compliance to the ToR issued by MoEF&CC.
1.	Name of the project along with applicable schedule and category as per EIA, 2006.
1.	Location and accessibility
1.	Resource requirements (Land; water; fuel; manpower)
1.	Operational activity
1.	Key pollution concerns

1.	Ambient air quality
1.	Ambient Noise quality
1.	Traffic study
1.	Surface water quality
1.	Ground water quality
1.	Soil quality
1.	Biological Environment
1.	Land use
1.	Socio-economic environment
1.	Impact on ambient air quality
1.	Impact on ambient noise quality
1.	Impact on road and traffic
1.	Impact on surface water resource and quality
1.	Impact on ground water resource and quality
1.	Impact on terrestrial and aquatic habitat
1.	Impact on socio-economic environment
1.	null
1.	Ambient air, noise, water and soil quality
1.	Noise quality management plan
1.	Emission and discharge from the plant
1.	Green Belt
1.	Social Parameters
1.	Risk assessment
1.	Public consultation
1.	Action plan to address the issues raised during public consultation as per MoEF&CC O.M. dated 30/09/2020
1.	null
1.	Air quality management plan

1.	Noise quality management plan
1.	Solid and hazardous waste management plan
1.	Effluent management plan
1.	Storm water management plan
1.	Occupational health and safety management plan
1.	Green belt development plan
1.	Socio-economic management plan
1.	Project cost and EMP implementation budget.
Introduction	
1.	Background about the project
1.	Need of the project
1.	Purpose of the EIA study
1.	Scope of the EIA study
Project description	
1.	Location of the project site covering village, Taluka/Tehsil, District and State.
1.	Site accessibility
1.	A digital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
1.	Latest High-resolution satellite image data having 1 m - 5 m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100 m all around the project location.
1.	Environment settings of the site and its surrounding along with map.
1.	A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.
1.	In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
1.	In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
1.	In case of canal/ nala/ seasonal drain and any other water body passing through project site, the PP shall submit the suitable steps /conservation plan/mitigation measures along with contouring, Run -off calculations, disposal

	etc. A robust and full proof Drainage Conservation scheme to protect the natural drainage/water bodies and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be provided in the report.
1.	Type of land, land use of the project site needs to be submitted.
1.	Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
1.	Project proponent shall prepare Engineering layout plan showing all internal roads minimum 6 m width and 9 m turning radius for smooth traffic flow inside including fire tender as per NBC. Road network shall connect all service areas in layout. This drawing shall include area statement showing plot area, area under roads, parking, green belt with calculations and % with respect to plot area of project site and proper indexing. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
1.	Project proponent shall submit contour map of project site along with drainage disposal system with calculations and drawings supported with proper indexing including Rain Water Harvesting details with calculations mentioning about GW recharge along with relevant drawing.
1.	A detailed report covering all aspects of Fire Safety Management and Fire Emergency Plan shall be submitted.
1.	Details of drone survey for the site, needs to be included in report and presented before the EAC during appraisal of the project.
1.	Status of Forest Clearance for the use of forest land shall be submitted.
1.	Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10 km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.
1.	The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.
1.	Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna along with budget and action plan, if any exists in the study area.
1.	Products with capacities in Tons per Annum for the proposed project.
1.	If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
1.	Site preparatory activities.
1.	List of raw materials required and their source along with mode of transportation.
1.	Other than raw materials, other chemicals and materials required with quantities and storage capacities.
1.	Manufacturing process details along with process flow diagram of proposed units.
1.	Consolidated materials and energy balance for the project.
1.	Total requirement of surface/ ground water and power with their respective sources, status of approval.

1.	Water balance diagram
1.	Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
1.	Man-power requirement.
1.	Cost of project and scheduled time of completion.
1.	In case of expansion projects, project proponent shall submit structural stability certificate showing whether existing structure withstand for proposed expansion activity.
1.	Brief on present status of compliance (Expansion/modernization proposals) a. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out. b. Cumulative Impact Assessment need to be carried out by greenfield projects considering the nearby industries. c. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next two years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source. d. Copy of all the Environment Clearance(s) including Amendments/validity of extension/transfer of EC, there to obtained for the project from MoEF&CC/SEIAA shall be attached as Annexures. A Certified Compliance Report (CCR) of the Integrated Regional Office of the Ministry of Environment, Forest and Climate Change/ or concerned authority as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022 on the status of compliance of conditions stipulated in all the existing environment clearances including amendments shall be provided. A Certified Compliance Report (CCR) issued by the concerned Authority shall be valid for a period of one year from the date of inspection. e. In case the existing project has not obtained Environment Clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. A proper justification needs to be submitted along with documentary proof. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 1994 or 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of CTO from the Regional Office of the SPCB shall be submitted, as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022. CCR on CTO conditions issued by the concerned SPCBs/PCCs shall be valid for a period of one year from the date of inspection of the project.

Description of the Environment

1.	Study period														
1.	<p>Approach and methodology for data collection as furnished below</p> <table border="1"> <thead> <tr> <th rowspan="2">Attributes</th> <th colspan="2">Sampling</th> <th rowspan="2">Remarks</th> </tr> <tr> <th>Network</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td colspan="4">Air Environment</td> </tr> <tr> <td> Micro-Meteorological <ul style="list-style-type: none"> • Wind speed (Hourly) • Wind direction • Dry bulb temperature • Wet bulb temperature • Relative humidity • Rainfall • Solar radiation • Cloud cover • Environmental • Lapse Rate </td> <td>Minimum 1 site in the project impact area</td> <td>hourly continuous</td> <td> IS 5182 Part 1-20 <ul style="list-style-type: none"> • Site specific primary data is essential • Secondary data from IMD, New Delhi • CPCB guidelines to be considered. </td> </tr> </tbody> </table>	Attributes	Sampling		Remarks	Network	Frequency	Air Environment				Micro-Meteorological <ul style="list-style-type: none"> • Wind speed (Hourly) • Wind direction • Dry bulb temperature • Wet bulb temperature • Relative humidity • Rainfall • Solar radiation • Cloud cover • Environmental • Lapse Rate 	Minimum 1 site in the project impact area	hourly continuous	IS 5182 Part 1-20 <ul style="list-style-type: none"> • Site specific primary data is essential • Secondary data from IMD, New Delhi • CPCB guidelines to be considered.
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<p>Pollutants</p> <ul style="list-style-type: none"> • PM10 • SO2 • NOx • CO • HC • Other parameters relevant to the project and topography of the area 	<p>At least 8-12 locations</p>	<p>As per National Ambient Air Quality Standards, CPCB Notification.</p>	<ul style="list-style-type: none"> • Sampling as per CPCB guidelines • Collection of AAQ data (except in monsoon season) • Locations of various stations for different parameters should be related to the characteristic properties of the parameters. • The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests, • Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAAQM Notification of 16/11/2009 along with min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
<p>Noise</p>			
<p>Hourly equivalent noise levels</p>	<p>At least 8-12 locations</p>	<p>s per norms</p>	<p>CPCB</p>
<p>Water</p>			
<p>Parameters for water quality</p> <ul style="list-style-type: none"> • pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity • Total nitrogen, total phosphorus, DO, BOD, 	<p>Samples for water quality should be collected and analyzed as per:</p> <ul style="list-style-type: none"> • IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents • Standard methods for examination of water and wastewater analysis published by American Public Health Association 		

<ul style="list-style-type: none"> COD, Phenol • Heavy metals • Total coliforms, faecal coliforms • Phyto plankton • Zoo plankton 		
<p>For River Bodies</p> <ul style="list-style-type: none"> • Total Carbon • pH • Dissolved Oxygen • Biological Oxygen Demand • Free NH4 • Boron • Sodium Absorption Ratio • Electrical Conductivity 	<p>Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies</p>	<ul style="list-style-type: none"> • Yield of water sources to be measured during critical season • Standard methodology for collection of surface water (BIS standards)
<p>For Ground Water</p>	<p>Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and shall be included.</p>	
<p>Traffic Study</p>		
<p>Type of vehicles</p> <ul style="list-style-type: none"> • Frequency of vehicles for transportation of materials • Additional traffic due to proposed project 	<p>Land Environment</p>	
<p>Soil</p> <ul style="list-style-type: none"> • Particle size distribution • Texture • pH • Electrical conductivity • Cation exchange capacity • Alkali metals • Sodium Absorption Ratio (SAR) • Permeability • Water holding capacity • Porosity 	<p>Soil samples be collected as per BIS specifications</p>	
<p>Land use/Landscape</p> <ul style="list-style-type: none"> • Location code • Total project area • Topography • Drainage (natural) • Cultivated, forest, plantations, water bodies, roads and 		

settlements			
Biological Environment			
<p>1. Aquatic</p> <ul style="list-style-type: none"> • Primary productivity • Aquatic weeds • Enumeration of phyto plankton, zoo plankton and benthos • Fisheries Diversity indices • Trophic levels • Rare and endangered species • Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ) <p>2. Terrestrial</p> <ul style="list-style-type: none"> • Vegetation-species list, economic importance, forest produce, medicinal value • Importance value index (IVI) of trees • Fauna • Avi fauna • Rare and endangered species • Sanctuaries / National park / Biosphere reserve • Migratory routes 	<ul style="list-style-type: none"> • Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. • Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. • For forest studies, direction of wind should be considered while selecting forests. • Secondary data to collect from Government offices, NGOs, published literature. 		
socio-economic			
<p>Demographic structure</p> <ul style="list-style-type: none"> • Infrastructure resource base • Economic resource base • Health status: Morbidity pattern • Cultural and aesthetic attributes. • Education 	<p>Socio-economic survey is based on proportionate, stratified and random sampling method.</p> <ul style="list-style-type: none"> • Primary data collection through questionnaire • Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. agencies 		
Approach and methodology for data collection as furnished below			
Attributes	Sampling		Remarks
	Network	Frequency	
Air Environment			

<p>Micro-Meteorological</p> <ul style="list-style-type: none"> • Wind speed (Hourly) • Wind direction • Dry bulb temperature • Wet bulb temperature • Relative humidity • Rainfall • Solar radiation • Cloud cover • Environmental • Lapse Rate 	<p>Minimum 1 site in the project impact area</p>	<p>hourly continuous</p>	<p>IS 5182 Part 1-20</p> <ul style="list-style-type: none"> • Site specific primary data is essential • Secondary data from IMD, New Delhi • CPCB guidelines to be considered.
<p>Pollutants</p> <ul style="list-style-type: none"> • PM10 • SO2 • NOx • CO • HC • Other parameters relevant to the project and topography of the area 	<p>At least 8-12 locations</p>	<p>As per National Ambient Air Quality Standards, CPCB Notification.</p>	<ul style="list-style-type: none"> • Sampling as per CPCB guidelines • Collection of AAQ data (except in monsoon season) • Locations of various stations for different parameters should be related to the characteristic properties of the parameters. • The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests, • Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAAQM Notification of 16/11/2009 along with min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
<p>Noise</p>			
<p>Hourly equivalent noise levels</p>	<p>At least 8-12</p>	<p>s per CPCB</p>	

	locations	norms	
Water			
Parameters for water quality <ul style="list-style-type: none"> pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity Total nitrogen, total phosphorus, DO, BOD, COD, Phenol Heavy metals Total coliforms, faecal coliforms Phyto plankton Zoo plankton 	Samples for water quality should be collected and analyzed as per: <ul style="list-style-type: none"> IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents Standard methods for examination of water and wastewater analysis published by American Public Health Association 		
For River Bodies <ul style="list-style-type: none"> Total Carbon pH Dissolved Oxygen Biological Oxygen Demand Free NH4 Boron Sodium Absorption Ratio Electrical Conductivity 	Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies	<ul style="list-style-type: none"> Yield of water sources to be measured during critical season Standard methodology for collection of surface water (BIS standards) 	
For Ground Water	Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and shall be included.		
Traffic Study			
Type of vehicles <ul style="list-style-type: none"> Frequency of vehicles for transportation of materials Additional traffic due to proposed project 	Land Environment		
Soil <ul style="list-style-type: none"> Particle size distribution Texture pH Electrical conductivity Cation exchange capacity Alkali metals Sodium Absorption Ratio (SAR) Permeability Water holding capacity 	Soil samples be collected as per BIS specifications		

<ul style="list-style-type: none"> • Porosity 	
<p>Land use/Landscape</p> <ul style="list-style-type: none"> • Location code • Total project area • Topography • Drainage (natural) Cultivated, forest, plantations, water bodies, roads and settlements 	
<p>Biological Environment</p>	
<p>1. Aquatic</p> <ul style="list-style-type: none"> • Primary productivity • Aquatic weeds • Enumeration of phyto plankton, zoo plankton and benthos • Fisheries Diversity indices • Trophic levels • Rare and endangered species • Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ) <p>2. Terrestrial</p> <ul style="list-style-type: none"> • Vegetation-species list, economic importance, forest produce, medicinal value • Importance value index (IVI) of trees • Fauna • Avi fauna • Rare and endangered species • Sanctuaries / National park / Biosphere reserve • Migratory routes 	<ul style="list-style-type: none"> • Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. • Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. • For forest studies, direction of wind should be considered while selecting forests. • Secondary data to collect from Government offices, NGOs, published literature.
<p>socio-economic</p>	
<p>Demographic structure</p> <ul style="list-style-type: none"> • Infrastructure resource base • Economic resource base 	<p>Socio-economic survey is based on proportionate, stratified and random sampling method.</p> <ul style="list-style-type: none"> • Primary data collection through questionnaire

	<ul style="list-style-type: none"> • Health status: Morbidity pattern • Cultural and aesthetic attributes. • Education 	<ul style="list-style-type: none"> • Secondary data from census records, statistical hand books, topo sheets, health records and relevant official records available with Govt. agencies 												
1.	Interpretation of each environment attribute shall be enumerated and summarized as given below: • Ambient air quality • Ambient Noise quality • Surface water quality • Ground water quality • Soil quality • Biological Environment • Land use • Socio-economic environment													
1.	The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples.													
Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)														
1.	Identification of potential impacts in the form of a matrix for the construction and operation phase for all the environment components <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Activity</th> <th style="width: 20%;">Environment</th> <th style="width: 20%;">Ecological</th> <th style="width: 30%;">Socio-economic</th> </tr> </thead> <tbody> <tr> <td>Construction phase</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Operation phase</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Activity	Environment	Ecological	Socio-economic	Construction phase				Operation phase			
Activity	Environment	Ecological	Socio-economic											
Construction phase														
Operation phase														
1.	Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase • Details of stack emissions from the existing as well as proposed activity. • Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period • Impact on ground level concentration, under normal, abnormal and emergency conditions. Measures to handle emergency situations in the event of uncontrolled release of emissions.													
1.	Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase													
1.	Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase													
1.	Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase													
1.	Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase													
1.	Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase													
1.	Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase													
1.	Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase													

1.	Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase																														
1.	Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase																														
Analysis of Alternatives (Technology & Site)																															
1.	No project scenario																														
1.	Site alternative																														
1.	Technical and social concerns																														
1.	Conclusion																														
Environmental Monitoring Program																															
1.	Details of the Environment Management Cell																														
1.	Performance monitoring schedule for all pollution control devices shall be furnished.																														
1.	<p>Corporate Environment Policy</p> <p>a. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.</p> <p>b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.</p> <p>c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given. Page 9 of 10</p> <p>d. Does the company have system of reporting of non compliances / violations of environment norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report</p>																														
1.	<p>Action plan for post-project environment monitoring matrix:</p> <table border="1"> <thead> <tr> <th>Activity</th> <th>Aspect</th> <th>Monitoring Parameter</th> <th>Location</th> <th>Frequency</th> <th>Responsibility</th> </tr> </thead> <tbody> <tr> <td colspan="6">Construction phase</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6">Operation phase</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility	Construction phase												Operation phase											
Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility																										
Construction phase																															
Operation phase																															
Additional Studies																															
1.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage after offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.																														
1.	Details of adoption/ implementation status/plan to achieve the goal of Glasgow COP26 Climate Submit with regard to enhance the non-fossil energy, use of renewable energy, minimization of net carbon emission and carbon																														

	intensity with long-term target of “net Zero” emission.																										
1.	Implementation status/measures adopted for avoiding the generation of single used plastic waste.																										
1.	In cases the project is located in Critically and Severely Polluted Areas, additional mitigation measures adopted and detailed action plan to be submitted in the EIA/EMP Report as per MoEF&CC O.M. No. 22-23/2028-IA.III dated 31/10/2019 and MoEF&CC O.M. No. 22-23/2028-IA.III dated 5/07/2022 has to be submitted.																										
1.	Public consultation details (Entire proceedings as separate annexure along with authenticated English Translation of Public Consultation proceedings).																										
1.	As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration. In this regard, time bound action plan as per the MoEF&CC Office Memorandum dated 30/09/2020 shall be submitted.																										
1.	Summary of issues raised during public consultation along with action plan to address the same as per MoEF&CC O.M. dated 30/09/2020 <table border="1"> <thead> <tr> <th rowspan="2">S.No</th> <th colspan="2">Physical activity and action plan</th> <th colspan="3">Year of implementation (Budget in INR)</th> <th rowspan="2">Total Expenditure (Rs. in Crores)</th> </tr> <tr> <th>Name of the Activity</th> <th>Physical Targets</th> <th>1st</th> <th>2nd</th> <th>3rd</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	S.No	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)	Name of the Activity	Physical Targets	1st	2nd	3rd														
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1.	<p>Risk assessment</p> <ul style="list-style-type: none"> • Methodology • Hazard identification • Frequency analysis • Consequence analysis • Risk assessment outcome 																										
1.	Emergency response and preparedness plan																										
Project Benefits																											
1.	Environment benefits																										
1.	Social infrastructure																										
1.	Employment and business opportunity																										
1.	Other tangible benefits																										
Environment Cost Benefit Analysis																											
1.	Net present value																										
1.	Internal rate of return																										

1.	Benefit cost ratio
1.	Cost effectiveness analysis
Environment Management Plan (Construction and Operation phase)	
1.	Air quality management plan
1.	Noise quality management plan
1.	Action plan for hazardous waste management
1.	Action plan for solid waste management
1.	Action plan for e-waste management.
1.	Action plan for plastic waste management, considering the Plastic Waste Management Rules 2016.
1.	Action plan for construction and demolition waste management.
1.	Effluent management plan
1.	Storm water management plan
1.	Rain water harvesting plan
1.	Plan for maximum usage of waste water/treated water in the Unit
1.	Occupational health and safety management plan
1.	Green belt development plan: An action plan for Green Belt development consisting of 3 tiers of plantations of native species all along the periphery of the project of adequate width shall be raised in 33% of total area with a tree density shall not less than 2500 per ha within a time frame of one year shall be submitted. Survival rate of green belt shall be monitored on periodic basis to ensure that survival rate not be less than 80 %.
1.	Socio-economic management plan
1.	Wildlife conservation plan (In case of presence of schedule I species)
1.	Total capital cost and recurring cost/annum for environment pollution control measures shall be included.
1.	Explore possibilities for recycling and reusing of treated water in the unit to reduce the freshwater demand and waste disposal.
1.	An Action Plan for improving the house-keeping activities in the raw material handling area need to be submitted
1.	Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
1.	Action plan to limit the dust emission from all the stacks below 30 mg/Nm ³ shall be furnished.
1.	Action plan for fugitive emission control in the plant premises shall be provided.
Conclusion of the EIA study	

1.	null
In addition to the above, any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.	
1.	null
Air cooled condensers shall be used in the power plant.	
1.	null
Details of Dry Ash handling system along with supplementary coal handling system shall be submitted.	
1.	null
Plan for transportation of coal shall be submitted.	
1.	null
Plan along with technical details of SCR shall be submitted.	
1.	null
In case of expansion project, Status of Ash Utilization of previous years (up to 5 years), action plan for 100% ash utilization along with timeline need to be submitted	
1.	null
null	
1.	A 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
1.	Plan for the implementation of the recommendations made for the proposed Unit in the Corporate Responsibility for Environmental Protection (CREP) guidelines.
1.	Plan for solid wastes utilization.
1.	Plan for utilization of energy in off gases (coke oven, blast furnace)
1.	System of coke quenching adopted with full justification.
1.	Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
1.	Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
1.	Details on toxic content using Toxicity Characteristic Leaching Procedure (TCLP), composition and end use of slag.
1.	100 % dolo char generated in the plant shall be used to generate power.
1.	Fourth Hole fume extraction system shall be provided for SAF.WHR system shall be installed to recover sensible

	heat from flue gases of EAF. Provision for installation of jigging and briquetting plant to utilise the fines generated in the process.
1.	No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be provided.
1.	Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
1.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be submitted.
1.	Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm ³ shall be furnished.
1.	Action plan for 100 % solid waste utilization shall be submitted.
1.	PM (PM ₁₀ and P _{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM ₁₀ to be carried over.
1.	Iron ore/coal linkage documents along with the status of environment clearance of iron ore and coal mines, if applicable.
1.	Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact, if applicable.
1.	Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials, if applicable.

3.10. Agenda Item No 10:

3.10.1. Details of the proposal

MIN_JPG_24 Sand Mine by WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED located at JALPAIGURI, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/470566/2024	2N-97/2024(E)	24/05/2024	Mining of minerals (1(a))

3.10.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the entire plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Jalpaiguri district. Therefore, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-

1. Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
2. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
3. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
4. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
5. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
6. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
7. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
8. The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
9. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
10. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
11. Management plan including the final closure plan of haul road to be submitted.
12. Sieve analysis report for grain size distribution should be provided.
13. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall upload the EIA/EMP report along with the documents / submissions / clarifications sought above in the PARIVESH portal while applying for environmental clearance.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.10.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/470566/2024** dated **24 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 40th meeting held on 08.06.2024 recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **M/s. West Bengal Mineral Development & Trading Corporation Limited** located is as follows :

S. No.	State	District
(1)	West Bengal	Jalpaiguri

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/470566/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved for ToR.

3.10.4. Recommendation of SEIAA

Approved

3.10.5. Details of Terms of Reference

3.10.5.1. Specific

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operational process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proposer regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range' (attracting court restrictions for mining operations), should also be indicated and where so required, clearances/certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly integrating the sectorial programmes of line departments of the State Government. It may be clearly brought whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) and December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification No. 1/2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data compiled and presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. Mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area.

should also take into account the impact of movement of vehicles for transportation of mineral. The details of model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Detail rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the line and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensation afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Cong Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and views of adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelled in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be provided.

	<p>the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of E should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). All documents to be properly referenced with index and continuous page numbering. Where data are presented in the Report especially in Tables, the period in which the data were collected and sources should be indicated. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. Where the documents provided are in a language other than English, an English translation should be provided. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall be filled and submitted. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on website of this Ministry, should be followed. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will require conducting the PH again with the revised documentation. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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B. Additional Terms of Reference imposed by SEAC –

1.	<ol style="list-style-type: none"> Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. Project Proponent must commit that no hard topping or paving of any haulage route within the riverbed be attempted. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
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- 6) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
- 7) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
- 8) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on project cost.
- 9) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
- 10) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
- 11) Management plan including the final closure plan of haul road to be submitted.
- 12) Sieve analysis report for grain size distribution should be provided.
- 13) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 on submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in the final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per the above-mentioned ToRs and incorporating the issues raised during Public Hearing / Public Consultation to the SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

Annexure - A

Annexure - A

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable)).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EIA/EMP.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of land acquisition, nearby (in 2-3 km.) water body, population, within 10km. other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary).
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.

	<p>11) Emergency preparedness plan in case of natural or in plant emergencies.</p> <p>12) Issues raised during public hearing (if applicable) and response given.</p> <p>13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. No. 65/2017-IA.III dated 30.09.2020 with proposed expenditure.</p> <p>14) Occupational Health Measures.</p> <p>15) Post project monitoring plan.</p>
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3.10.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinates and site layout plan. Insuch cases cumulative impact of mine operation with washery to be assessd and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need eloboration in form of lengthe, quantity and quality of water to be diverted
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should

	also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																																																		
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																																																		
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																																																		
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																																																		
1.	<p>Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights</p> <table border="1"> <thead> <tr> <th rowspan="2">S.N</th> <th rowspan="2">ML/Project Land use</th> <th>Area under Surface Rights</th> <th>Area Under Mining Rights</th> <th rowspan="2">Area under Both (ha)</th> </tr> <tr> <th>(ha)</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Grazing Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Others (specify)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>S.N.</th> <th>Details</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buildings</td> <td></td> </tr> <tr> <td>2</td> <td>Infrastructure</td> <td></td> </tr> <tr> <td>3</td> <td>Roads</td> <td></td> </tr> <tr> <td>4</td> <td>Others (specify)</td> <td></td> </tr> <tr> <td></td> <td>Total</td> <td></td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface Rights	Area Under Mining Rights	Area under Both (ha)	(ha)	(ha)	1	Agricultural land				2	Forest Land				3	Grazing Land				4	Settlements				5	Others (specify)				S.N.	Details	Area (ha)	1	Buildings		2	Infrastructure		3	Roads		4	Others (specify)			Total	
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1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat																																																		

	by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided
1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be

	provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportation area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the

	population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.																				
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.																				
1.	Corporate Environment Responsibility:																				
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.																				
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.																				
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.																				
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.																				
1.	e) Environment Management Cell and its responsibilities to be clearly spelled out in EIA/ EMP report																				
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																				
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																				
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																				
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																				
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																				
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="3">Date of FC</th> <th rowspan="3">Extent of Forest Land</th> <th rowspan="3">Balance area for which FC is yet to be obtained</th> <th rowspan="3">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> <tr> <th>(ha)</th> <th></th> <th>land (ha)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)			If more than one provide details of each FC				
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1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																				
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation																				

	of the same should be provided.
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.

3.11. Agenda Item No 11:

3.11.1. Details of the proposal

MIN_JPG_28 Sand Mine by WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED located at JALPAIGURI, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/471824/2024	2N-92/2024(E)	23/05/2024	Mining of minerals (1(a))

3.11.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :29/05/2024

Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the entire plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Jalpaiguri district. Therefore, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-

1. Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
2. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
3. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
4. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
5. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
6. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
7. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
8. The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
9. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
10. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
11. Management plan including the final closure plan of haul road to be submitted.
12. Sieve analysis report for grain size distribution should be provided.
13. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought above.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.11.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/471824/2024** dated **23 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 39th meeting held on 29.05.2024 SEAC recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **M/s. West Bengal Mineral Development & Trading Corporation Limited** located is as follows :

S. No.	State	District
(1)	West Bengal	Jalpaiguri

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/471824/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved for ToR.

3.11.4. Recommendation of SEIAA

Approved

3.11.5. Details of Terms of Reference

3.11.5.1. Specific

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. All documents should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operational process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained

the EIA such as waste generation etc. should be for the life of the mine / lease period.

10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proposer regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and according detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range' (attracting court restrictions for mining operations), should also be indicated and where so required, clearances/certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise should be undertaken to assess their requirements, and action programmes prepared and submitted according to integrating the sectorial programmes of line departments of the State Government. It may be clearly brought to whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) and December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification No. 1/2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data shall be compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.

23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. The model should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Detail rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and RL. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the line and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensation afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving road infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and views of adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelled in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.

	<p>40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of E should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> a. Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). b. All documents to be properly referenced with index and continuous page numbering. c. Where data are presented in the Report especially in Tables, the period in which the data were collected and sources should be indicated. d. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. e. Where the documents provided are in a language other than English, an English translation should be provided. f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall be filled and submitted. g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on website of this Ministry, should be followed. h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will require conducting the PH again with the revised documentation. i. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. j. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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B. Additional Terms of Reference imposed by SEAC –

<p>1.</p>	<ol style="list-style-type: none"> 1) Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted. 2) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. Project Proponent must commit that no hard topping or paving of any haulage route within the riverbed be attempted. 3) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted. 4) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted. 5) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
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- 6) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
- 7) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
- 8) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on project cost.
- 9) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
- 10) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
- 11) Management plan including the final closure plan of haul road to be submitted.
- 12) Sieve analysis report for grain size distribution should be provided.
- 13) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 on submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in the final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per the above-mentioned ToRs and incorporating the issues raised during Public Hearing / Public Consultation to the SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

Annexure - A

Annexure - A

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable)).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EIA/EMP.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of land acquisition, nearby (in 2-3 km.) water body, population, within 10km. other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary).
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.

	<p>11) Emergency preparedness plan in case of natural or in plant emergencies.</p> <p>12) Issues raised during public hearing (if applicable) and response given.</p> <p>13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. No. 65/2017-IA.III dated 30.09.2020 with proposed expenditure.</p> <p>14) Occupational Health Measures.</p> <p>15) Post project monitoring plan.</p>
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3.11.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinates and site layout plan. Insuch cases cumulative impact of mine operation with washery to be assessd and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need eloboration in form of lengthe, quantity and quality of water to be diverted
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should

	also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																																																		
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																																																		
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																																																		
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																																																		
1.	<p>Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights</p> <table border="1"> <thead> <tr> <th rowspan="2">S.N</th> <th rowspan="2">ML/Project Land use</th> <th>Area under Surface Rights</th> <th>Area Under Mining Rights</th> <th rowspan="2">Area under Both (ha)</th> </tr> <tr> <th>(ha)</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Grazing Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Others (specify)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>S.N.</th> <th>Details</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buildings</td> <td></td> </tr> <tr> <td>2</td> <td>Infrastructure</td> <td></td> </tr> <tr> <td>3</td> <td>Roads</td> <td></td> </tr> <tr> <td>4</td> <td>Others (specify)</td> <td></td> </tr> <tr> <td></td> <td>Total</td> <td></td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface Rights	Area Under Mining Rights	Area under Both (ha)	(ha)	(ha)	1	Agricultural land				2	Forest Land				3	Grazing Land				4	Settlements				5	Others (specify)				S.N.	Details	Area (ha)	1	Buildings		2	Infrastructure		3	Roads		4	Others (specify)			Total	
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1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat																																																		

	by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided
1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be

	provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportation area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the

	population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.																				
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.																				
1.	Corporate Environment Responsibility:																				
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.																				
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.																				
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.																				
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.																				
1.	e) Environment Management Cell and its responsibilities to be clearly spelled out in EIA/ EMP report																				
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																				
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																				
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																				
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																				
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																				
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="3">Date of FC</th> <th rowspan="3">Extent of Forest Land</th> <th rowspan="3">Balance area for which FC is yet to be obtained</th> <th rowspan="3">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> <tr> <th>(ha)</th> <th></th> <th>land (ha)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)			If more than one provide details of each FC				
Total	ML	Total	Date of FC	Extent of Forest Land					Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land											
Project	Area	Forest																			
(ha)		land (ha)																			
		If more than one provide details of each FC																			
1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																				
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation																				

	of the same should be provided.
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.

3.12. Agenda Item No 12:

3.12.1. Details of the proposal

MIN_JPG_29 Sand Mine by WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED located at JALPAIGURI, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/471838/2024	2N-93/2024(E)	23/05/2024	Mining of minerals (1(a))

3.12.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :29/05/2024

Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the entire plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Jalpaiguri district. Therefore, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-

1. Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
2. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
3. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
4. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
5. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
6. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
7. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
8. The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
9. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
10. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
11. Management plan including the final closure plan of haul road to be submitted.
12. Sieve analysis report for grain size distribution should be provided.
13. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought above.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.12.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/471838/2024** dated **23 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 39th meeting held on 29.05.2024 SEAC recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **M/s. West Bengal Mineral Development & Trading Corporation Limited** located is as follows :

S. No.	State	District
(1)	West Bengal	Jalpaiguri

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/471838/2024** in PARIVESH Portal.
SEIAA considered the recommendation of SEAC and approved for ToR.

3.12.4. Recommendation of SEIAA

Approved

3.12.5. Details of Terms of Reference

3.12.5.1. Specific

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operational process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained

the EIA such as waste generation etc. should be for the life of the mine / lease period.

10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proposer regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and according detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range' (attracting court restrictions for mining operations), should also be indicated and where so required, clearances/certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise should be undertaken to assess their requirements, and action programmes prepared and submitted according to integrating the sectorial programmes of line departments of the State Government. It may be clearly brought to whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) or December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification No. 1/2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data shall be compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.

23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. The model should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Detail rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and RL. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the line and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensation afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving road infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and views of adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelled in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.

	<p>40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of E should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> a. Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). b. All documents to be properly referenced with index and continuous page numbering. c. Where data are presented in the Report especially in Tables, the period in which the data were collected and sources should be indicated. d. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. e. Where the documents provided are in a language other than English, an English translation should be provided. f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall be filled and submitted. g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on website of this Ministry, should be followed. h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will require conducting the PH again with the revised documentation. i. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. j. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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B. Additional Terms of Reference imposed by SEAC –

1.	<ol style="list-style-type: none"> 1) Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted. 2) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. Project Proponent must commit that no hard topping or paving of any haulage route within the riverbed be attempted. 3) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted. 4) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted. 5) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
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- 6) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
- 7) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
- 8) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on project cost.
- 9) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
- 10) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
- 11) Management plan including the final closure plan of haul road to be submitted.
- 12) Sieve analysis report for grain size distribution should be provided.
- 13) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 on submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in the final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per the above-mentioned ToRs and incorporating the issues raised during Public Hearing / Public Consultation to the SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

Annexure - A

Annexure - A

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable)).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EIA/EMP.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of land acquisition, nearby (in 2-3 km.) water body, population, within 10km. other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary).
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.

	<p>11) Emergency preparedness plan in case of natural or in plant emergencies.</p> <p>12) Issues raised during public hearing (if applicable) and response given.</p> <p>13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. No. 65/2017-IA.III dated 30.09.2020 with proposed expenditure.</p> <p>14) Occupational Health Measures.</p> <p>15) Post project monitoring plan.</p>
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3.12.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinales and site layout plan. Insuch cases cumulative impact of mine operation with washery to be assessd and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need eloboration in form of lengthe, quantity and quality of water to be diverted
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should

	also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																																																		
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																																																		
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																																																		
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																																																		
1.	<p>Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights</p> <table border="1"> <thead> <tr> <th rowspan="2">S.N</th> <th rowspan="2">ML/Project Land use</th> <th>Area under Surface Rights</th> <th>Area Under Mining Rights</th> <th rowspan="2">Area under Both (ha)</th> </tr> <tr> <th>(ha)</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Grazing Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Others (specify)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>S.N.</th> <th>Details</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buildings</td> <td></td> </tr> <tr> <td>2</td> <td>Infrastructure</td> <td></td> </tr> <tr> <td>3</td> <td>Roads</td> <td></td> </tr> <tr> <td>4</td> <td>Others (specify)</td> <td></td> </tr> <tr> <td></td> <td>Total</td> <td></td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface Rights	Area Under Mining Rights	Area under Both (ha)	(ha)	(ha)	1	Agricultural land				2	Forest Land				3	Grazing Land				4	Settlements				5	Others (specify)				S.N.	Details	Area (ha)	1	Buildings		2	Infrastructure		3	Roads		4	Others (specify)			Total	
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1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat																																																		

	by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided
1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be

	provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportation area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the

	population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.																				
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.																				
1.	Corporate Environment Responsibility:																				
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.																				
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.																				
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.																				
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.																				
1.	e) Environment Management Cell and its responsibilities to be clearly spelled out in EIA/ EMP report																				
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																				
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																				
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																				
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																				
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																				
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="3">Date of FC</th> <th rowspan="3">Extent of Forest Land</th> <th rowspan="3">Balance area for which FC is yet to be obtained</th> <th rowspan="3">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> <tr> <th>(ha)</th> <th></th> <th>land (ha)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)			If more than one provide details of each FC				
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1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																				
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation																				

	of the same should be provided.
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.

3.13. Agenda Item No 13:

3.13.1. Details of the proposal

MIN_JPG_31 by WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED located at JALPAIGURI, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/469939/2024	2N-91/2024(E)	23/05/2024	Mining of minerals (1(a))

3.13.2. Deliberations by the committee in previous meetings

Date of SEAC 1 : 29/05/2024

Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the entire plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Jalpaiguri district. Therefore, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-

1. Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
2. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
3. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
4. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
5. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
6. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
7. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
8. The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
9. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
10. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
11. Management plan including the final closure plan of haul road to be submitted.
12. Sieve analysis report for grain size distribution should be provided.
13. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought above.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.13.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/469939/2024** dated **23 May 2024** seeking

Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 39th meeting held on 29.05.2024 SEAC recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **M/s. West Bengal Mineral Development & Trading Corporation Limited** located is as follows :

S. No.	State	District
(1)	West Bengal	Jalpaiguri

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/469939/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved for ToR.

3.13.4. Recommendation of SEIAA

Approved

3.13.5. Details of Terms of Reference

3.13.5.1. Specific

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. All documents should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operational process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proposer regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range' (attracting court restrictions for mining operations), should also be indicated and where so required, clearances/certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly integrating the sectorial programmes of line departments of the State Government. It may be clearly brought whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) and December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification No. 19/2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data compiled and presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. Mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area.

should also take into account the impact of movement of vehicles for transportation of mineral. The details of model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Detail rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the line and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensation afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Cong Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and views of adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelled in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be provided.

	<p>the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of E should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> a. Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). b. All documents to be properly referenced with index and continuous page numbering. c. Where data are presented in the Report especially in Tables, the period in which the data were collected and sources should be indicated. d. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. e. Where the documents provided are in a language other than English, an English translation should be provided. f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall be filled and submitted. g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on website of this Ministry, should be followed. h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will require conducting the PH again with the revised documentation. i. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. j. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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B. Additional Terms of Reference imposed by SEAC –

1.	<ol style="list-style-type: none"> 1) Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted. 2) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. Project Proponent must commit that no hard topping or paving of any haulage route within the riverbed be attempted. 3) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted. 4) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted. 5) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
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- 6) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
- 7) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
- 8) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on project cost.
- 9) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
- 10) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
- 11) Management plan including the final closure plan of haul road to be submitted.
- 12) Sieve analysis report for grain size distribution should be provided.
- 13) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 on submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in the final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per the above-mentioned ToRs and incorporating the issues raised during Public Hearing / Public Consultation to the SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

Annexure - A

Annexure - A

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable)).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EIA/EMP.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of land acquisition, nearby (in 2-3 km.) water body, population, within 10km. other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary).
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.

	<p>11) Emergency preparedness plan in case of natural or in plant emergencies.</p> <p>12) Issues raised during public hearing (if applicable) and response given.</p> <p>13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. No. 65/2017-IA.III dated 30.09.2020 with proposed expenditure.</p> <p>14) Occupational Health Measures.</p> <p>15) Post project monitoring plan.</p>
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3.13.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinates and site layout plan. Insuch cases cumulative impact of mine operation with washery to be assessd and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need eloboration in form of lengthe, quantity and quality of water to be diverted
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should

	also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																																																		
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																																																		
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																																																		
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																																																		
1.	<p>Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights</p> <table border="1"> <thead> <tr> <th rowspan="2">S.N</th> <th rowspan="2">ML/Project Land use</th> <th>Area under Surface Rights</th> <th>Area Under Mining Rights</th> <th rowspan="2">Area under Both (ha)</th> </tr> <tr> <th>(ha)</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Grazing Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Others (specify)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>S.N.</th> <th>Details</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buildings</td> <td></td> </tr> <tr> <td>2</td> <td>Infrastructure</td> <td></td> </tr> <tr> <td>3</td> <td>Roads</td> <td></td> </tr> <tr> <td>4</td> <td>Others (specify)</td> <td></td> </tr> <tr> <td></td> <td>Total</td> <td></td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface Rights	Area Under Mining Rights	Area under Both (ha)	(ha)	(ha)	1	Agricultural land				2	Forest Land				3	Grazing Land				4	Settlements				5	Others (specify)				S.N.	Details	Area (ha)	1	Buildings		2	Infrastructure		3	Roads		4	Others (specify)			Total	
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1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat																																																		

	by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided
1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be

	provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportation area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the

	population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.																				
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.																				
1.	Corporate Environment Responsibility:																				
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.																				
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.																				
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.																				
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.																				
1.	e) Environment Management Cell and its responsibilities to be clearly spelled out in EIA/ EMP report																				
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																				
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																				
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																				
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																				
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																				
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1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																				
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation																				

	of the same should be provided.
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.

3.14. Agenda Item No 14:

3.14.1. Details of the proposal

Rasunpur Sand Mine by M/S LIBRA RETAILER PVT. LTD. located at PASCHIM BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/468471/2024	2N-201/2023(E)	09/04/2024	Mining of minerals (1(a))

3.14.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :18/05/2024

Deliberations of SEAC 1 :

- The SEAC scrutinized the documents submitted by the PP in the 38th meeting of SEAC, WB (2023-2026) held on 18.05.2024. Based on the submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 1. The reserves as per approved DSR should be incorporated in the Mine Plan.
 2. Photographs of the site mentioning the geo-coordinates.
 3. Standard practice of management of the intermediate storage area should be submitted.
 4. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 5. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 6. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 7. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
 8. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 9. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 10. The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 11. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.
 12. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
 13. Management plan including the final closure plan of haul road to be submitted.
 14. Sieve analysis report for grain size distribution should be provided.
 15. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought above.

All the documents should be duly signed both by the project proponent and environmental the consultant.

Date of SEAC 2 :24/04/2024

Deliberations of SEAC 2 :

- Based on the submission and presentation made by the PP, the SEAC observed that the **plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Paschim Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC recommended that the following submission/ clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration:-

1) Valid LoI from the competent authority.

2) Taking into consideration the replenishment rates reported in the approved DSR for Paschim Bardhaman, both geological and mining reserves for second year (of production) onwards may be re-estimated and the annual production levels may be modified accordingly.

3) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.

4) A plan on management and handling of sand during the period of intermediate stock piling should be submitted.

5) A Progressive Greenbelt Plan may be prepared. The project being a riverbed project afforestation/vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region.

6) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Year wise budget should be provided.

7) A study report on base flow level measured at 5 points with date and supporting photographs may be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.

Therefore, the SEAC recommended that the above documents should be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

3.14.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/468471/2024** dated **09 April 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 38th meeting held on 18.05.2024, recommended that Standard Terms of Reference may be issued for EIA study of the proposed project with additional conditions.

PROJECT DETAILS

The project of **M/s. Libra Retailer Pvt. Ltd** located is as follows :

S. No.	State	District
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(1)	West Bengal	Paschim Bardhaman
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The salient features of the project submitted by the project proponent are available under online proposal no. **SIA/WB/MIN/468471/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved for ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.14.4. Recommendation of SEIAA

Approved

3.14.5. Details of Terms of Reference

3.14.5.1. Specific

N/A

3.14.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinates and site layout plan. Insuch cases cumulative impact of mine operation with washery to be assesd and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.

1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.																																
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted																																
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																																
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																																
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																																
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																																
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights																																
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2	Infrastructure												
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	Total												
1.	<p>Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.</p>												
1.	<p>One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.</p>												
1.	<p>Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.</p>												
1.	<p>For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided</p>												
1.	<p>A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.</p>												
1.	<p>The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.</p>												
1.	<p>The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.</p>												
1.	<p>Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.</p>												

1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.

1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.										
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.										
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.										
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.										
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.										
1.	Corporate Environment Responsibility:										
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.										
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.										
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.										
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.										
1.	e) Environment Management Cell and its responsibilities to be clearly spleel out in EIA/ EMP report										
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.										
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.										
1.	Status of any litigations/ court cases filed/pending on the project should be provided.										
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.										
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.										
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1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report					
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1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes					
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.					
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report					
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)					
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.					
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.					

3.15. Agenda Item No 15:

3.15.1. Details of the proposal

Rasunpur Sand Mine by MR. AJAY TIWARI located at PASCHIM BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/468483/2024	2N-179/2023(E)	10/04/2024	Mining of minerals (1(a))

3.15.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :18/05/2024

Deliberations of SEAC 1 :

- The SEAC scrutinized the documents submitted by the PP in the 38th meeting of SEAC, WB (2023-2026) held on 18.05.2024. Based on the submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :
- 1) The reserves as per approved DSR should be incorporated in the Mine Plan.
 - 2) Photographs of the site mentioning the geo-coordinates.
 - 3) Standard practice of management of the intermediate storage area should be submitted.
 - 4) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 - 5) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 - 6) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 - 7) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
 - 8) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 - 9) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 - 10) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 - 11) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.
 - 12) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
 - 13) Management plan including the final closure plan of haul road to be submitted.
 - 14) Sieve analysis report for grain size distribution should be provided.
 - 15) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought above.

All the documents should be duly signed both by the project proponent and environmental the consultant.

Date of SEAC 2 :24/04/2024

Deliberations of SEAC 2 :

- Based on the submission and presentation made by the PP, the SEAC observed that the **plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Paschim Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC recommended that the following submission/ clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration:-

1) Valid LoI from the competent authority.

2) Taking into consideration the replenishment rates reported in the approved DSR for Paschim Bardham both geological and mining reserves for second year (of production) onwards may be re-estimated and annual production levels may be modified accordingly.

3) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.

4) A plan on management and handling of sand during the period of intermediate stock piling should be submitted.

5) A Progressive Greenbelt Plan may be prepared. The project being a riverbed project afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with the approval of the local self governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region.

6) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. 122-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. Year wise budget should be provided.

7) A study report on base flow level measured at 5 points with date and supporting photographs may be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.

Therefore, the SEAC recommended that the above documents should be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries or through "PARIVESH" portal.

3.15.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/468483/2024** dated **10 April 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 38th meeting held on 18.05.2024, recommended that Standard Terms of Reference may be issued for EIA study of the proposed project with additional conditions.

PROJECT DETAILS

The project of **Ajay Tiwari** located is as follows :

S. No.	State	District
(1)	West Bengal	Paschim Bardhaman

The salient features of the project submitted by the project proponent are available under online proposal no. **SIA/WB/MIN/468483/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.15.4. Recommendation of SEIAA

Approved

3.15.5. Details of Terms of Reference

3.15.5.1. Specific

N/A

3.15.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinates and site layout plan. Insuch cases cumulative impact of mine operation with washery to be assessd and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses

	of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.																																						
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted																																						
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																																						
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																																						
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																																						
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																																						
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights																																						
	<table border="1"> <thead> <tr> <th rowspan="2">S.N</th> <th rowspan="2">ML/Project Land use</th> <th>Area under Surface</th> <th>Area Under Mining Rights</th> <th rowspan="2">Area under Both (ha)</th> </tr> <tr> <th>Rights(ha)</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Grazing Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Others (specify)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>S.N.</th> <th>Details</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buildings</td> <td></td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface	Area Under Mining Rights	Area under Both (ha)	Rights(ha)	(ha)	1	Agricultural land				2	Forest Land				3	Grazing Land				4	Settlements				5	Others (specify)				S.N.	Details	Area (ha)	1	Buildings	
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3	Roads												
4	Others (specify)												
	Total												
1.	<p>Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.</p>												
1.	<p>One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.</p>												
1.	<p>Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.</p>												
1.	<p>For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided</p>												
1.	<p>A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.</p>												
1.	<p>The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.</p>												
1.	<p>The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.</p>												
1.	<p>Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.</p>												

1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.

1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.										
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.										
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.										
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.										
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.										
1.	Corporate Environment Responsibility:										
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.										
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.										
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.										
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.										
1.	e) Environment Management Cell and its responsibilities to be clearly spleel out in EIA/ EMP report										
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.										
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.										
1.	Status of any litigations/ court cases filed/pending on the project should be provided.										
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.										
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.										
1.	Details on the Forest Clearance should be given as per the format given: <table border="1"> <tr> <td>Total</td> <td>ML</td> <td>Total</td> <td rowspan="2">Date of FC</td> <td rowspan="2">Extent of Forest Land</td> <td rowspan="2">Balance area for which FC is yet to be obtained</td> <td rowspan="2">Status of appl For diversion of forest land</td> </tr> <tr> <td>Project</td> <td>Area</td> <td>Forest</td> </tr> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest
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Project	Area	Forest									

	(ha)	land (ha)				
		If more than one provide details of each FC				
1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report					
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.					
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes					
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.					
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report					
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)					
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.					
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.					

3.16. Agenda Item No 16:

3.16.1. Details of the proposal

Rasunpur Sand Mine by SURENDRA JINDAL located at PASCHIM BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/468531/2024	2N-93/2023(E)	11/04/2024	Mining of minerals (1(a))

3.16.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :18/05/2024

Deliberations of SEAC 1 :

- The SEAC scrutinized the documents submitted by the PP in the 38th meeting of SEAC, WB (2023-2026) held on 18.05.2024. Based on the submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :

- 1) The reserves as per approved DSR should be incorporated in the Mine Plan.
- 2) Photographs of the site mentioning the geo-coordinates.
- 3) Standard practice of management of the intermediate storage area should be submitted.
- 4) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
- 5) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
- 6) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
- 7) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
- 8) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
- 9) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
- 10) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
- 11) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.
- 12) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
- 13) Management plan including the final closure plan of haul road to be submitted.
- 14) Sieve analysis report for grain size distribution should be provided.
- 15) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought above.

All the documents should be duly signed both by the project proponent and environmental the consultant.

Date of SEAC 2 :24/04/2024

Deliberations of SEAC 2 :

- Based on the submission and presentation made by the PP, the SEAC observed that the **plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Paschim Bardhaman district.
- The SEAC also observed that the geo-coordinates mentioned in the Mining Plan are in a mismatch.
- Based on the presentation and submission made by the PP, the SEAC recommended that the following submission/ clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration:-

1) Valid LoI from the competent authority.

2) Revised cluster certificate and mining plan should be submitted considering the mismatch in g coordinates.

3) Taking into consideration the replenishment rates reported in the approved DSR for Paschim Bardham both geological and mining reserves for second year (of production) onwards may be re-estimated and annual production levels may be modified accordingly.

4) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will attempted.

5) A plan on management and handling of sand during the period of intermediate stock piling should submitted.

6) A Progressive Greenbelt Plan may be prepared. The project being a riverbed project afforestation vegetation should be attempted alongside the village roads or other public land. This may be done with approval of the local self governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region.

7) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. 122-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. Year wise budget should be provided.

8) A study report on base flow level measured at 5 points with date and supporting photographs may submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.

Therefore, the SEAC recommended that the above documents should be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries or through "PARIVESH" portal.

3.16.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/468531/2024** dated **11 April 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 38th meeting held on 18.05.2024 recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **Surendra Jindal** located is as follows :

S. No.	State	District
(1)	West Bengal	Paschim Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/468531/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.16.4. Recommendation of SEIAA

Approved

3.16.5. Details of Terms of Reference**3.16.5.1. Specific**

N/A

3.16.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinates and site layout plan. Insuch cases cumulative impact of mine operation with washery to be assessd and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also

1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.																																
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.																																
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted																																
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																																
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																																
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																																
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																																
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights <table border="1"> <thead> <tr> <th rowspan="2">S.N</th> <th rowspan="2">ML/Project Land use</th> <th>Area under Surface Rights</th> <th>Area Under Mining Rights</th> <th rowspan="2">Area under Both (ha)</th> </tr> <tr> <th>(ha)</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Grazing Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Others (specify)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface Rights	Area Under Mining Rights	Area under Both (ha)	(ha)	(ha)	1	Agricultural land				2	Forest Land				3	Grazing Land				4	Settlements				5	Others (specify)			
S.N	ML/Project Land use			Area under Surface Rights	Area Under Mining Rights		Area under Both (ha)																										
		(ha)	(ha)																														
1	Agricultural land																																
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3	Grazing Land																																
4	Settlements																																
5	Others (specify)																																

S.N.	Details	Area (ha)
1	Buildings	
2	Infrastructure	
3	Roads	
4	Others (specify)	
	Total	

1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SO _x , NO _x and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided
1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the

	compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral

	transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
1.	Corporate Environment Responsibility:
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
1.	e) Environment Managment Cell and its responsibilities to be clearly spleel out in EIA/ EMP report
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.
1.	Status of any litigations/ court cases filed/pending on the project should be provided.
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.

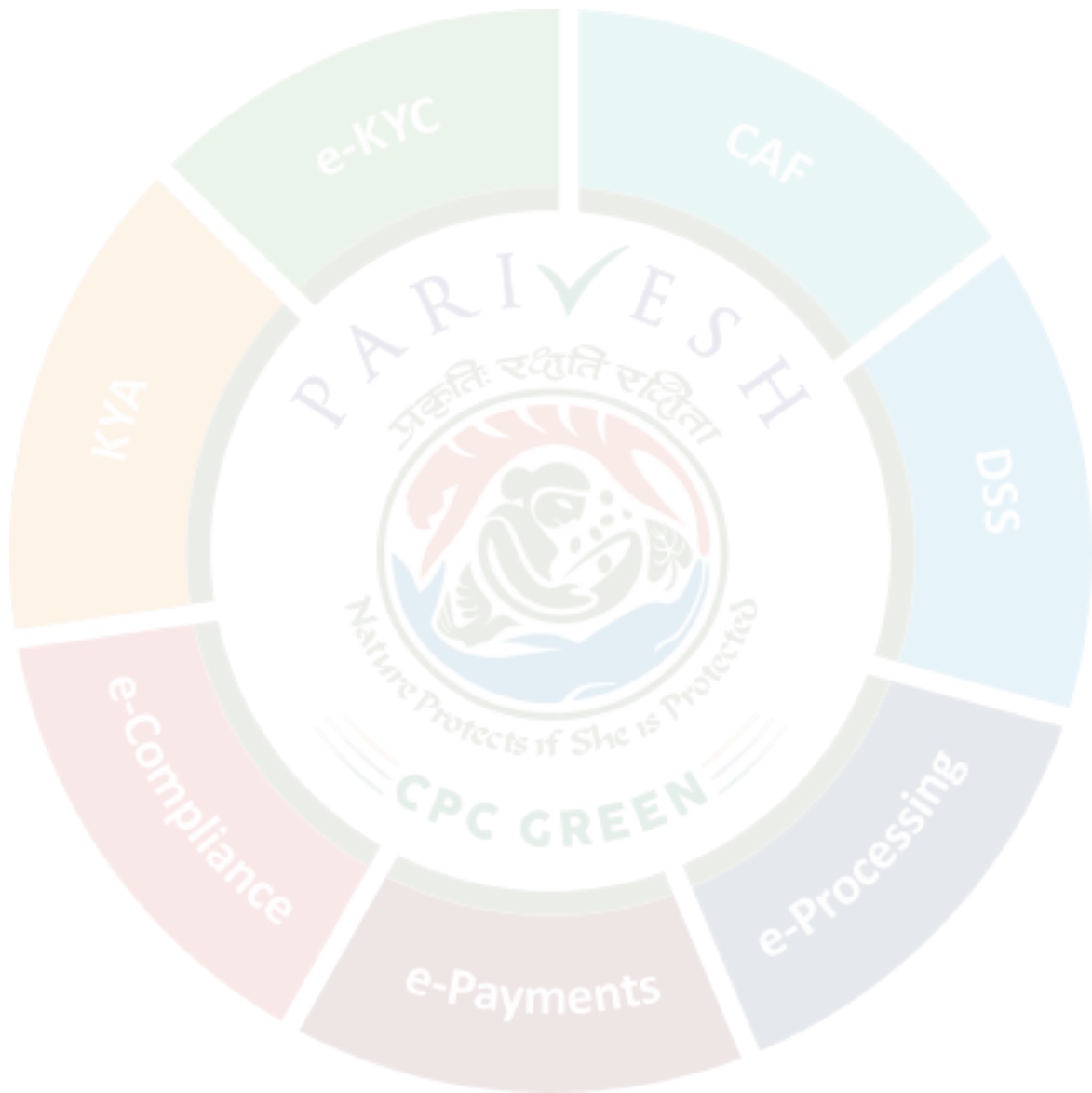
1.	Details on the Forest Clearance should be given as per the format given:						
	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land
	Project	Area	Forest				
	(ha)		land (ha)				
		If more than one provide details of each FC					
1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report						
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.						
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes						
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.						
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report						
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)						
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.						
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.						

3.17. Agenda Item No 17:

3.17.1. Details of the proposal

Dumur Sand Mine by INAAYA ENTERPRISE located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/475306/2024	2N-295/2023(E)	28/05/2024	Mining of minerals (1(a))

3.17.2. Deliberations by the committee in previous meetings



Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 - 1) The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
 - 2) Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
 - 3) Photographs of the site mentioning the geo-coordinates.
 - 4) Standard practice of management of the intermediate storage area should be submitted.
 - 5) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 - 6) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 - 7) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 - 8) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
 - 9) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 - 10) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 - 11) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 - 12) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
 - 13) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
 - 14) Management plan including the final closure plan of haul road to be submitted.
 - 15) Sieve analysis report for grain size distribution should be provided.
 - 16) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall upload the EIA/EMP report along with the documents / submissions / clarifications sought above in the PARIVESH portal while applying for environmental clearance.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.17.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/475306/2024** dated **28 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 40th meeting held on 08.06.2024 recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **M/s. Inaaya Enterprise** located is as follows :

S. No.	State	District
(1)	West Bengal	Purba Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/475306/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.17.4. Recommendation of SEIAA

Approved

3.17.5. Details of Terms of Reference

3.17.5.1. Specific

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. All documents should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operational process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms and conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of

compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.

8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard should be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including details of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details should be furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated and supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range Restriction' (attracting court restrictions for mining operations), should also be indicated and where so required, clearances/certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly integrating the sectorial programmes of line departments of the State Government. It may be clearly brought to the attention whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season)

December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. mineralogical composition of PM10, particularly for free silica, should be given.

23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and RL. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the line and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensation afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving transport infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congestion Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EMP Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and views of adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame.

	<p>for implementation.</p> <p>38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.</p> <p>39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in final EIA/EMP Report of the Project.</p> <p>40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> a. Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). b. All documents to be properly referenced with index and continuous page numbering. c. Where data are presented in the Report especially in Tables, the period in which the data were collected and sources should be indicated. d. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. e. Where the documents provided are in a language other than English, an English translation should be provided. f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall be filled and submitted. g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on website of this Ministry, should be followed. h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will require conducting the PH again with the revised documentation. i. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. j. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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B. Additional Terms of Reference imposed by SEAC –

<p>1.</p>	<ol style="list-style-type: none"> 1. The revised reserves as per approved DSR should be incorporated in the approved Mine Plan. 2. Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted. 3. Photographs of the site mentioning the geo-coordinates. 4. Standard practice of management of the intermediate storage area should be submitted. 5. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard topping or paving of any haulage route within the river will be attempted. 6. A plan on the management and handling of sand during the period of intermediate stockpiling should
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submitted.

7. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.

8. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.

9. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.

10. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.

11. The project cost may include the auction bid value, estimated royalty to be paid, cost of infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.

12. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.

13. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.

14. Management plan including the final closure plan of haul road to be submitted.

15. Sieve analysis report for grain size distribution should be provided.

16. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

While applying for environmental clearance, the PP shall upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 on submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues mentioned in 'Public Hearing Report' and public consultation must also be addressed and incorporated in the final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per the above-mentioned ToRs and incorporating the issues raised during Public Hearing / Public Consultation to the SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

Annexure - A

Annexure - A

Executive Summary

1. The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable)).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EIA/EMP.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).

	<ol style="list-style-type: none"> 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes. 5) Measures for mitigating the impact on the environment and mode of discharge or disposal. 6) Capital cost of the project, estimated time of completion. 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of acquisition, nearby (in 2-3 km.) water body, population, within 10km. other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary). 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristics, flora and fauna, socio-economic condition of the nearby population. 9) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk. 10) Likely impact of the project on air, water, land, flora-fauna and nearby population. 11) Emergency preparedness plan in case of natural or in plant emergencies. 12) Issues raised during public hearing (if applicable) and response given. 13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. No. 65/2017-IA.III dated 30.09.2020 with proposed expenditure. 14) Occupational Health Measures. 15) Post project monitoring plan.
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3.17.5.2. Standard

1(a)	Mining of minerals
	null
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA) operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited separately also, providing pillar coordinates and site layout plan. In such cases cumulative impact of mine operation with washery to be assessed and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Proper KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly

	indicated in the separate map.																																									
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted																																									
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																																									
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																																									
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																																									
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																																									
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights <table border="1"> <thead> <tr> <th rowspan="2">S.N</th> <th rowspan="2">ML/Project Land use</th> <th>Area under Surface Rights</th> <th>Area Under Mining Rights</th> <th rowspan="2">Area under Both (ha)</th> </tr> <tr> <th>(ha)</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Grazing Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Others (specify)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>S.N.</th> <th>Details</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buildings</td> <td></td> </tr> <tr> <td>2</td> <td>Infrastructure</td> <td></td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface Rights	Area Under Mining Rights	Area under Both (ha)	(ha)	(ha)	1	Agricultural land				2	Forest Land				3	Grazing Land				4	Settlements				5	Others (specify)				S.N.	Details	Area (ha)	1	Buildings		2	Infrastructure	
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3	Roads									
4	Others (specify)									
	Total									
1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.									
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.									
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.									
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided									
1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.									
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.									
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.									
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.									
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted.									

	Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.

1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.										
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.										
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.										
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.										
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.										
1.	Corporate Environment Responsibility:										
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.										
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.										
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.										
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.										
1.	e) Environment Management Cell and its responsibilities to be clearly spleel out in EIA/ EMP report										
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.										
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.										
1.	Status of any litigations/ court cases filed/pending on the project should be provided.										
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.										
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.										
1.	Details on the Forest Clearance should be given as per the format given: <table border="1"> <tr> <td>Total</td> <td>ML</td> <td>Total</td> <td rowspan="2">Date of FC</td> <td rowspan="2">Extent of Forest Land</td> <td rowspan="2">Balance area for which FC is yet to be obtained</td> <td rowspan="2">Status of appl For diversion of forest land</td> </tr> <tr> <td>Project</td> <td>Area</td> <td>Forest</td> </tr> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest
Total	ML	Total	Date of FC	Extent of Forest Land					Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	
Project	Area	Forest									

	(ha)	land (ha)				
		If more than one provide details of each FC				
1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report					
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.					
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes					
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.					
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report					
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)					
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.					
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.					

3.18. Agenda Item No 18:

3.18.1. Details of the proposal

Shikarpur Sand Mine by MUKUL KUNDU located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/475200/2024	2N-214/2023(E)	28/05/2024	Mining of minerals (1(a))

3.18.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 - 1) The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
 - 2) Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
 - 3) Photographs of the site mentioning the geo-coordinates.
 - 4) Standard practice of management of the intermediate storage area should be submitted.
 - 5) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 - 6) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 - 7) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 - 8) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
 - 9) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 - 10) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 - 11) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 - 12) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
 - 13) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
 - 14) Management plan including the final closure plan of haul road to be submitted.
 - 15) Sieve analysis report for grain size distribution should be provided.
 - 16) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall upload the EIA/EMP report along with the documents / submissions / clarifications sought above in the PARIVESH portal while applying for environmental clearance.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.18.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/475200/2024** dated **28 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 40th meeting held on 08.06.2024 recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **Shri Mukul Kundu** located is as follows :

S. No.	State	District
(1)	West Bengal	Purba Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/475200/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.18.4. Recommendation of SEIAA

Approved

3.18.5. Details of Terms of Reference

3.18.5.1. Specific

Annexure - A

Annexure

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable)).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to ear EC.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private la status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km. other industries, for eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety sys provided to mitigate the risk.
- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.
- 11) Emergency preparedness plan in case of natural or in plant emergencies.

- 12) Issues raised during public hearing (if applicable) and response given.
- 13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. 22-65/2017-IA.III dated 30.09.2020 with proposed expenditure.
- 14) Occupational Health Measures.
- 15) Post project monitoring plan.

B. Additional Terms of Reference imposed by SEAC –

1. The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
2. Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted.
3. Photographs of the site mentioning the geo-coordinates.
4. Standard practice of management of the intermediate storage area should be submitted.
5. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the river will be attempted.
6. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
7. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within the first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
8. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
9. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
10. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
11. The project cost may include the auction bid value, estimated royalty to be paid, cost of infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
12. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.
13. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
14. Management plan including the final closure plan of haul road to be submitted.
15. Sieve analysis report for grain size distribution should be provided.
16. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

While applying for environmental clearance, the PP shall upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006

submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in the final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per the above-mentioned ToRs and incorporating all the issues raised during Public Hearing / Public Consultation to SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State Land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of prescribed operating process/procedures to bring into focus any infringement/deviation/violation of environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the details contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Project Proponent.

with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of State Forest Department to assist the Expert Appraisal Committees.

13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area details furnished. Impact of the project on the wildlife in the surrounding and any other protected area accordingly, detailed mitigative measures required, should be worked out with cost implications submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearances, as may be applicable to such projects due to proximity of the ecologically sensitive areas mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and Conservation and furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field surveys clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared after consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Air Pollution Control Range', (attracting court restrictions for mining operations), should also be indicated and where so required, necessary clearances/certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectorial programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. All issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) and December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data shall be compiled and presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area. It is justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the study area. It should also take into account the impact of movement of vehicles for transportation of mineral. Details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also

indicated on the map.

24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. Report inter-alia, shall include details of the aquifers present and impact of mining activities on the aquifers. Necessary permission from Central Ground Water Authority for working below ground water table for pumping of ground water should also be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangements for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and views of adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given in different time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law

	<p>against the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of E should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project should clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). All documents to be properly referenced with index and continuous page numbering. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. Where the documents provided are in a language other than English, an English translation should be provided. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry should also be filled and submitted. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) may entail conducting the PH again with the revised documentation. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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3.18.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA) operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited separately also, providing pillar coordinates and site layout plan. In such cases cumulative impact of mine operation with washery to be assessed and EMP measure to be drawn to the worst scenario

1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn												
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided												
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also												
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.												
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.												
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need eloboration in form of lengthe, quantity and quality of water to be diverted												
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.												
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.												
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing though the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.												
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.												
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>S.N</th> <th>ML/Project use</th> <th>Land</th> <th>Area under Surface Rights(ha)</th> <th>Area Under Mining Rights(ha)</th> <th>Area under Both (ha)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	S.N	ML/Project use	Land	Area under Surface Rights(ha)	Area Under Mining Rights(ha)	Area under Both (ha)						
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1.	<p>Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.</p>																									
1.	<p>One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SO_x, NO_x and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.</p>																									
1.	<p>Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.</p>																									
1.	<p>For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided</p>																									
1.	<p>A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact</p>																									

	on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart

	indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
1.	Corporate Environment Responsibility:
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
1.	e) Environment Managment Cell and its responsibilities to be clearly spleel out in EIA/ EMP report
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.

1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																								
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																								
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																								
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																								
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="2">Date of FC</th> <th rowspan="2">Extent of Forest Land</th> <th rowspan="2">Balance area for which FC is yet to be obtained</th> <th rowspan="2">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> </thead> <tbody> <tr> <td>(ha)</td> <td></td> <td>land (ha)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)							If more than one provide details of each FC				
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1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																								
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.																								
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes																								
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.																								
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report																								
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)																								
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.																								
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.																								

3.19. Agenda Item No 19:

3.19.1. Details of the proposal

D Bhasapur Sand Mine by JAYDEV PAL located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/475129/2024	2N-314/2023(E)	29/05/2024	Mining of minerals (1(a))

3.19.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

The diagram is a circular infographic for CPC GREEN. It consists of seven colored segments arranged in a ring around a central logo. The segments are labeled as follows: e-KYC (green), CAF (light blue), DSS (blue), e-Processing (grey-blue), e-Payments (brown), e-Compliance (pink), and KYA (orange). The central logo features the word 'PARIVESH' in a semi-circle above a circular emblem containing a tree and water. Below the emblem is the text 'Nature Protects if She is Protected'. The words 'CPC GREEN' are written in a semi-circle below the emblem.

Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 - 1) Cluster Certificate from the competent authority.
 - 2) The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
 - 3) Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
 - 4) Photographs of the site mentioning the geo-coordinates.
 - 5) Standard practice of management of the intermediate storage area should be submitted.
 - 6) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 - 7) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 - 8) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 - 9) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
 - 10) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 - 11) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 - 12) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 - 13) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
 - 14) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
 - 15) Management plan including the final closure plan of haul road to be submitted.
 - 16) Sieve analysis report for grain size distribution should be provided.
 - 17) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall upload the EIA/EMP report along with the documents / submissions / clarifications sought above in the PARIVESH portal while applying for environmental clearance.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.19.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/475129/2024** dated **29 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 40th meeting held on 08.06.2024 recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **Shri Jaydev Pal** located is as follows :

S. No.	State	District
(1)	West Bengal	Purba Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/475129/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.19.4. Recommendation of SEIAA

Approved

3.19.5. Details of Terms of Reference

3.19.5.1. Specific

Annexure - A

Annexure

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to ear EC.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private la status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km. other industries, for eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety sys

provided to mitigate the risk.

- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.
- 11) Emergency preparedness plan in case of natural or in plant emergencies.
- 12) Issues raised during public hearing (if applicable) and response given.
- 13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. 22-65/2017-IA.III dated 30.09.2020 with proposed expenditure.
- 14) Occupational Health Measures.
- 15) Post project monitoring plan.

B. Additional Terms of Reference imposed by SEAC –

1. Cluster Certificate from the competent authority.
2. The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
3. Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted.
4. Photographs of the site mentioning the geo-coordinates.
5. Standard practice of management of the intermediate storage area should be submitted.
6. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the river will be attempted.
7. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
8. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
9. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
10. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
11. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
12. The project cost may include the auction bid value, estimated royalty to be paid, cost of infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
13. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.
14. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
15. Management plan including the final closure plan of haul road to be submitted.
16. Sieve analysis report for grain size distribution should be provided.
17. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

While applying for environmental clearance, the PP shall upload in the PARIVESH portal, the EIA/EMP report

along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per above-mentioned ToRs and incorporating all the issues raised during Public Hearing / Public Consultation to SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with each other in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State Land use board or the concerned authority.
1. 7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of prescribed operating process/procedures to bring into focus any infringement/deviation/violation of environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the details contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area details furnished. Impact of the project on the wildlife in the surrounding and any other protected area accordingly, detailed mitigative measures required, should be worked out with cost implications submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearances, as may be applicable to such projects due to proximity of the ecologically sensitive areas mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and Conservation and furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared after consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Air Quality Management Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectorial programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. Issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) or December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data shall be compiled and presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area. Justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the study area. It should also take into account the impact of movement of vehicles for transportation of mineral.

details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on the aquifers. Necessary permission from Central Ground Water Authority for working below ground water table for pumping of ground water should also be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangements for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound

	<p>Action Plan with budgetary provisions to implement the same should be provided and also incorporate the final EIA/EMP Report of the Project.</p> <p>40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EIA should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project should clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). All documents to be properly referenced with index and continuous page numbering. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. Where the documents provided are in a language other than English, an English translation should be provided. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry should also be filled and submitted. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) may entail conducting the PH again with the revised documentation. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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3.19.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.

1.	If the washery is located within the mine lease or near to the mine lease its location should be cited separately also, providing pillar coordinates and site layout plan. In such cases cumulative impact of mine operation with washery to be assessed and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Proper KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights

S.N	ML/Project use	Land	Area under	Area Under	Mining	Area under Both
			Surface	Rights(ha)		
1	Agricultural land					
2	Forest Land					
3	Grazing Land					
4	Settlements					
5	Others (specify)					

S.N.	Details	Area (ha)
1	Buildings	
2	Infrastructure	
3	Roads	
4	Others (specify)	
	Total	

1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the

	downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided
1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics

1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
1.	Corporate Environment Responsibility:
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or

	stakeholders at large.																								
1.	e) Environment Management Cell and its responsibilities to be clearly spelled out in EIA/ EMP report																								
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																								
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																								
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																								
1.	PP shall submit clarification from PCCF that mine does not fall under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																								
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closure plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																								
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="2">Date of FC</th> <th rowspan="2">Extent of Forest Land</th> <th rowspan="2">Balance area for which FC is yet to be obtained</th> <th rowspan="2">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> </thead> <tbody> <tr> <td>(ha)</td> <td></td> <td>land (ha)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)							If more than one provide details of each FC				
Total	ML	Total	Date of FC	Extent of Forest Land					Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land															
Project	Area	Forest																							
(ha)		land (ha)																							
		If more than one provide details of each FC																							
1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																								
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.																								
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes																								
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.																								
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report																								
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)																								
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.																								
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.																								

3.20. Agenda Item No 20:

3.20.1. Details of the proposal

D Bhasapur Sand Mine by RAM CHAUDHARY located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/474952/2024	2N-286/2023(E)	29/05/2024	Mining of minerals (1(a))

3.20.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

The diagram is a circular graphic with a central logo. The logo consists of a bird (parrot) in a circle, with the word 'PARIVESH' above it and 'CPC GREEN' below it. Below the bird, the text 'Nature Protects if She is Protected' is written. The surrounding segments are labeled: KYA (top-left), CAF (top-right), DSS (right), e-Processing (bottom-right), e-Payments (bottom), and e-Compliance (bottom-left).

Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 - 1) Cluster Certificate from the competent authority.
 - 2) The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
 - 3) Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
 - 4) Photographs of the site mentioning the geo-coordinates.
 - 5) Standard practice of management of the intermediate storage area should be submitted.
 - 6) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 - 7) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 - 8) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 - 9) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
 - 10) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 - 11) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 - 12) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 - 13) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
 - 14) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
 - 15) Management plan including the final closure plan of haul road to be submitted.
 - 16) Sieve analysis report for grain size distribution should be provided.
 - 17) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall upload the EIA/EMP report along with the documents / submissions / clarifications sought above in the PARIVESH portal while applying for environmental clearance.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.20.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/474952/2024** dated **29 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 40th meeting held on 08.06.2024 recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **Shri Ram Chaudhary** located is as follows :

S. No.	State	District
(1)	West Bengal	Purba Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/474952/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.20.4. Recommendation of SEIAA

Approved

3.20.5. Details of Terms of Reference

3.20.5.1. Specific

Annexure - A

Annexure

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to ear EC.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private la status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km. other industries, for eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety sys

provided to mitigate the risk.

- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.
- 11) Emergency preparedness plan in case of natural or in plant emergencies.
- 12) Issues raised during public hearing (if applicable) and response given.
- 13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. 22-65/2017-IA.III dated 30.09.2020 with proposed expenditure.
- 14) Occupational Health Measures.
- 15) Post project monitoring plan.

B. Additional Terms of Reference imposed by SEAC –

1. Cluster Certificate from the competent authority.
2. The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
3. Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted.
4. Photographs of the site mentioning the geo-coordinates.
5. Standard practice of management of the intermediate storage area should be submitted.
6. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the river will be attempted.
7. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
8. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
9. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
10. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
11. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
12. The project cost may include the auction bid value, estimated royalty to be paid, cost of infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
13. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.
14. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
15. Management plan including the final closure plan of haul road to be submitted.
16. Sieve analysis report for grain size distribution should be provided.
17. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

While applying for environmental clearance, the PP shall upload in the PARIVESH portal, the EIA/EMP report

along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per above-mentioned ToRs and incorporating all the issues raised during Public Hearing / Public Consultation to SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with each other in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State Land use board or the concerned authority.
1. 7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of prescribed operating process/procedures to bring into focus any infringement/deviation/violation of environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the details contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area details furnished. Impact of the project on the wildlife in the surrounding and any other protected area accordingly, detailed mitigative measures required, should be worked out with cost implications submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearances, as may be applicable to such projects due to proximity of the ecologically sensitive areas mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and Conservation and details furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared after consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Air Pollution Control Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectorial programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. Issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) or December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data compiled and presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area. Justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the study area. It should also take into account the impact of movement of vehicles for transportation of mineral.

details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on the aquifers. Necessary permission from Central Ground Water Authority for working below ground water table for pumping of ground water should also be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and views of adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound

	<p>Action Plan with budgetary provisions to implement the same should be provided and also incorporate the final EIA/EMP Report of the Project.</p> <p>40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EIA should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project should clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). All documents to be properly referenced with index and continuous page numbering. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. Where the documents provided are in a language other than English, an English translation should be provided. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry should also be filled and submitted. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) may entail conducting the PH again with the revised documentation. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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3.20.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.

1.	If the washery is located within the mine lease or near to the mine lease its location should be cited separately also, providing pillar coordinates and site layout plan. In such cases cumulative impact of mine operation with washery to be assessed and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Proper KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights

S.N	ML/Project use	Land	Area under	Area Under	Mining	Area under Both
			Surface	Rights(ha)		
1	Agricultural land					
2	Forest Land					
3	Grazing Land					
4	Settlements					
5	Others (specify)					

S.N.	Details	Area (ha)
1	Buildings	
2	Infrastructure	
3	Roads	
4	Others (specify)	
	Total	

1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the

	downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided
1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics

1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
1.	Corporate Environment Responsibility:
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or

	stakeholders at large.																				
1.	e) Environment Management Cell and its responsibilities to be clearly spelled out in EIA/ EMP report																				
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																				
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																				
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																				
1.	PP shall submit clarification from PCCF that mine does not fall under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																				
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closure plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																				
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="3">Date of FC</th> <th rowspan="3">Extent of Forest Land</th> <th rowspan="3">Balance area for which FC is yet to be obtained</th> <th rowspan="3">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> <tr> <th>(ha)</th> <th></th> <th>land (ha)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)			If more than one provide details of each FC				
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Project	Area	Forest																			
(ha)		land (ha)																			
		If more than one provide details of each FC																			
1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																				
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.																				
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes																				
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.																				
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report																				
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)																				
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.																				
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.																				

3.21. Agenda Item No 21:

3.21.1. Details of the proposal

Jujuti Sand Mine by MUKUNDA KHAN located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/476998/2024	2N-98/2024(E)	29/05/2024	Mining of minerals (1(a))

3.21.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

The diagram is a circular graphic with a central emblem. The emblem contains a bird (likely a peacock) and the text 'PARIVESH' in large letters, with 'CPC GREEN' below it. A motto in Hindi, 'प्रकृति रक्षति रक्षिते' (Nature Protects if She is Protected), is written in a smaller font. The circular graphic is divided into six colored segments: KYA (orange), CAF (light green), DSS (light blue), e-Processing (grey), e-Payments (brown), and e-Compliance (pink).

Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 - 1) Cluster Certificate from the competent authority.
 - 2) The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
 - 3) Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
 - 4) Photographs of the site mentioning the geo-coordinates.
 - 5) Standard practice of management of the intermediate storage area should be submitted.
 - 6) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 - 7) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 - 8) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 - 9) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
 - 10) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 - 11) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 - 12) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 - 13) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
 - 14) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
 - 15) Management plan including the final closure plan of haul road to be submitted.
 - 16) Sieve analysis report for grain size distribution should be provided.
 - 17) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall upload the EIA/EMP report along with the documents / submissions / clarifications sought above in the PARIVESH portal while applying for environmental clearance.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.21.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/476998/2024** dated **29 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 40th meeting held on 08.06.2024 recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **Shri Mukunda Khan** located is as follows :

S. No.	State	District
(1)	West Bengal	Purba Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/476998/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.21.4. Recommendation of SEIAA

Approved

3.21.5. Details of Terms of Reference

3.21.5.1. Specific

Annexure - A

Annexure

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to ear EC.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private la status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km. other industries, for eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety sys

provided to mitigate the risk.

- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.
- 11) Emergency preparedness plan in case of natural or in plant emergencies.
- 12) Issues raised during public hearing (if applicable) and response given.
- 13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. 22-65/2017-IA.III dated 30.09.2020 with proposed expenditure.
- 14) Occupational Health Measures.
- 15) Post project monitoring plan.

B. Additional Terms of Reference imposed by SEAC –

1. Cluster Certificate from the competent authority.
2. The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
3. Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted.
4. Photographs of the site mentioning the geo-coordinates.
5. Standard practice of management of the intermediate storage area should be submitted.
6. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the river will be attempted.
7. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
8. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
9. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
10. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
11. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
12. The project cost may include the auction bid value, estimated royalty to be paid, cost of infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
13. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.
14. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
15. Management plan including the final closure plan of haul road to be submitted.
16. Sieve analysis report for grain size distribution should be provided.
17. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

While applying for environmental clearance, the PP shall upload in the PARIVESH portal, the EIA/EMP report

along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per above-mentioned ToRs and incorporating all the issues raised during Public Hearing / Public Consultation to SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with each other in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State Land use board or the concerned authority.
1. 7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of prescribed operating process/procedures to bring into focus any infringement/deviation/violation of environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the details contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area details furnished. Impact of the project on the wildlife in the surrounding and any other protected area accordingly, detailed mitigative measures required, should be worked out with cost implications submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearances, as may be applicable to such projects due to proximity of the ecologically sensitive areas mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and Conservation and submitted.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared after consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Air Pollution Control Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectorial programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. Issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) or December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data shall be compiled and presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area. Justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the study area. It should also take into account the impact of movement of vehicles for transportation of mineral.

details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on the aquifers. Necessary permission from Central Ground Water Authority for working below ground water table for pumping of ground water should also be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound

	<p>Action Plan with budgetary provisions to implement the same should be provided and also incorporate the final EIA/EMP Report of the Project.</p> <p>40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EIA should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project should clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). All documents to be properly referenced with index and continuous page numbering. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. Where the documents provided are in a language other than English, an English translation should be provided. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry should also be filled and submitted. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) may entail conducting the PH again with the revised documentation. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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3.21.5.2. Standard

1(a)	Mining of minerals
	null
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.

1.	If the washery is located within the mine lease or near to the mine lease its location should be cited separately also, providing pillar coordinates and site layout plan. In such cases cumulative impact of mine operation with washery to be assessed and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Proper KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights

S.N	ML/Project use	Land	Area under	Area Under	Mining	Area under Both (ha)
			Surface Rights(ha)	Rights(ha)		
1	Agricultural land					
2	Forest Land					
3	Grazing Land					
4	Settlements					
5	Others (specify)					

S.N.	Details	Area (ha)
1	Buildings	
2	Infrastructure	
3	Roads	
4	Others (specify)	
	Total	

1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the

	downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided
1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics

1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
1.	Corporate Environment Responsibility:
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or

	stakeholders at large.																				
1.	e) Environment Management Cell and its responsibilities to be clearly spelled out in EIA/ EMP report																				
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																				
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																				
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																				
1.	PP shall submit clarification from PCCF that mine does not fall under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																				
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closure plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																				
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="3">Date of FC</th> <th rowspan="3">Extent of Forest Land</th> <th rowspan="3">Balance area for which FC is yet to be obtained</th> <th rowspan="3">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> <tr> <th>(ha)</th> <th></th> <th>land (ha)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)			If more than one provide details of each FC				
Total	ML	Total	Date of FC	Extent of Forest Land					Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land											
Project	Area	Forest																			
(ha)		land (ha)																			
		If more than one provide details of each FC																			
1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																				
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.																				
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes																				
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.																				
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report																				
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)																				
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.																				
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.																				

3.22. Agenda Item No 22:

3.22.1. Details of the proposal

Kumirkola Sand Mine by RAJEN ROY located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/477114/2024	2N-209/2023(E)	30/05/2024	Mining of minerals (1(a))

3.22.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

The diagram is a circular infographic. At the center is the logo for 'PARIVESH', which includes a stylized bird and the text 'प्रकृति रक्षति रक्षितः' and 'Nature Protects if She is Protected'. Below the logo is the text 'CPC GREEN'. Surrounding the central logo are six colored segments, each with a label: 'KYA' (orange), 'DSS' (light blue), 'e-Processing' (grey-blue), 'e-Payments' (brown), 'e-Compliance' (pink), and 'CAF' (light green).

Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 - 1) The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
 - 2) Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
 - 3) Photographs of the site mentioning the geo-coordinates.
 - 4) Standard practice of management of the intermediate storage area should be submitted.
 - 5) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 - 6) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 - 7) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 - 8) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
 - 9) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 - 10) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 - 11) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 - 12) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
 - 13) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
 - 14) Management plan including the final closure plan of haul road to be submitted.
 - 15) Sieve analysis report for grain size distribution should be provided.
 - 16) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall upload the EIA/EMP report along with the documents / submissions / clarifications sought above in the PARIVESH portal while applying for environmental clearance.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.22.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/477114/2024** dated **30 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 40th meeting held on 08.06.2024 SEAC recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **Shri Rajen Roy** located is as follows :

S. No.	State	District
(1)	West Bengal	Purba Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/477114/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.22.4. Recommendation of SEIAA

Approved

3.22.5. Details of Terms of Reference

3.22.5.1. Specific

Annexure - A

Annexure

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable)).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to ear EC.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private la status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km. other industries, for eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety sys provided to mitigate the risk.
- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.
- 11) Emergency preparedness plan in case of natural or in plant emergencies.

- 12) Issues raised during public hearing (if applicable) and response given.
- 13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. 22-65/2017-IA.III dated 30.09.2020 with proposed expenditure.
- 14) Occupational Health Measures.
- 15) Post project monitoring plan.

B. Additional Terms of Reference imposed by SEAC –

1. The revised reserves as per approved DSR should be incorporated in the approved Mine Plan.
2. Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted.
3. Photographs of the site mentioning the geo-coordinates.
4. Standard practice of management of the intermediate storage area should be submitted.
5. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the river will be attempted.
6. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
7. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within the first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
8. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
9. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
10. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
11. The project cost may include the auction bid value, estimated royalty to be paid, cost of infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
12. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.
13. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
14. Management plan including the final closure plan of haul road to be submitted.
15. Sieve analysis report for grain size distribution should be provided.
16. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

While applying for environmental clearance, the PP shall upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 upon submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues

mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per above-mentioned ToRs and incorporating all the issues raised during Public Hearing / Public Consultation to SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State Land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of prescribed operating process/procedures to bring into focus any infringement/deviation/violation of environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the details contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Proponent, the same should be clearly stated in the EIA Report.

Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of State Forest Department to assist the Expert Appraisal Committees.

13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area details furnished. Impact of the project on the wildlife in the surrounding and any other protected area accordingly, detailed mitigative measures required, should be worked out with cost implications submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearances, as may be applicable to such projects due to proximity of the ecologically sensitive areas mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and Conservation and furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field surveys clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Air Pollution Control Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectorial programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. All issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) and December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data compiled and presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area. It is justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the study area. It should also take into account the impact of movement of vehicles for transportation of mineral. Details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors.

receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also indicated on the map.

24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. Report inter-alia, shall include details of the aquifers present and impact of mining activities on the aquifers. Necessary permission from Central Ground Water Authority for working below ground water table for pumping of ground water should also be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given in suitable time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.

	<p>40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.</p> <p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EIA should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project should clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> a. Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). b. All documents to be properly referenced with index and continuous page numbering. c. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. d. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. e. Where the documents provided are in a language other than English, an English translation should be provided. f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry should also be filled and submitted. g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) shall entail conducting the PH again with the revised documentation. i. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. j. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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3.22.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA) operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited separately also, providing pillar coordinates and site layout plan. In such cases cumulative impact of mine operation with

	washery to be assessed and EMP measure to be drawn to the worst scenario												
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn												
1.	Proper KML file with pin drop and coordinate of mine at 500-1000 m interval be provided												
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also												
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.												
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.												
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted												
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.												
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.												
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.												
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.												
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights <table border="1"> <thead> <tr> <th>S.N</th> <th>ML/Project use</th> <th>Land</th> <th>Area under Surface</th> <th>Area Under Mining Rights(ha)</th> <th>Area under Both (ha)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	S.N	ML/Project use	Land	Area under Surface	Area Under Mining Rights(ha)	Area under Both (ha)						
S.N	ML/Project use	Land	Area under Surface	Area Under Mining Rights(ha)	Area under Both (ha)								

		Rights(ha)	(ha)	
1	Agricultural land			
2	Forest Land			
3	Grazing Land			
4	Settlements			
5	Others (specify)			

S.N.	Details	Area (ha)
1	Buildings	
2	Infrastructure	
3	Roads	
4	Others (specify)	
	Total	

1. Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.

1. One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.

1. Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.

1. For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided

1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.

1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
1.	Corporate Environment Responsibility:
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
1.	e) Environment Managment Cell and its responsibilities to be clearly spleel out in EIA/ EMP report

1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																				
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																				
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																				
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																				
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																				
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="3">Date of FC</th> <th rowspan="3">Extent of Forest Land</th> <th rowspan="3">Balance area for which FC is yet to be obtained</th> <th rowspan="3">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> <tr> <th>(ha)</th> <th></th> <th>land (ha)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)			If more than one provide details of each FC				
Total	ML	Total	Date of FC	Extent of Forest Land					Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land											
Project	Area	Forest																			
(ha)		land (ha)																			
		If more than one provide details of each FC																			
1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																				
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.																				
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes																				
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.																				
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report																				
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)																				
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.																				
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.																				

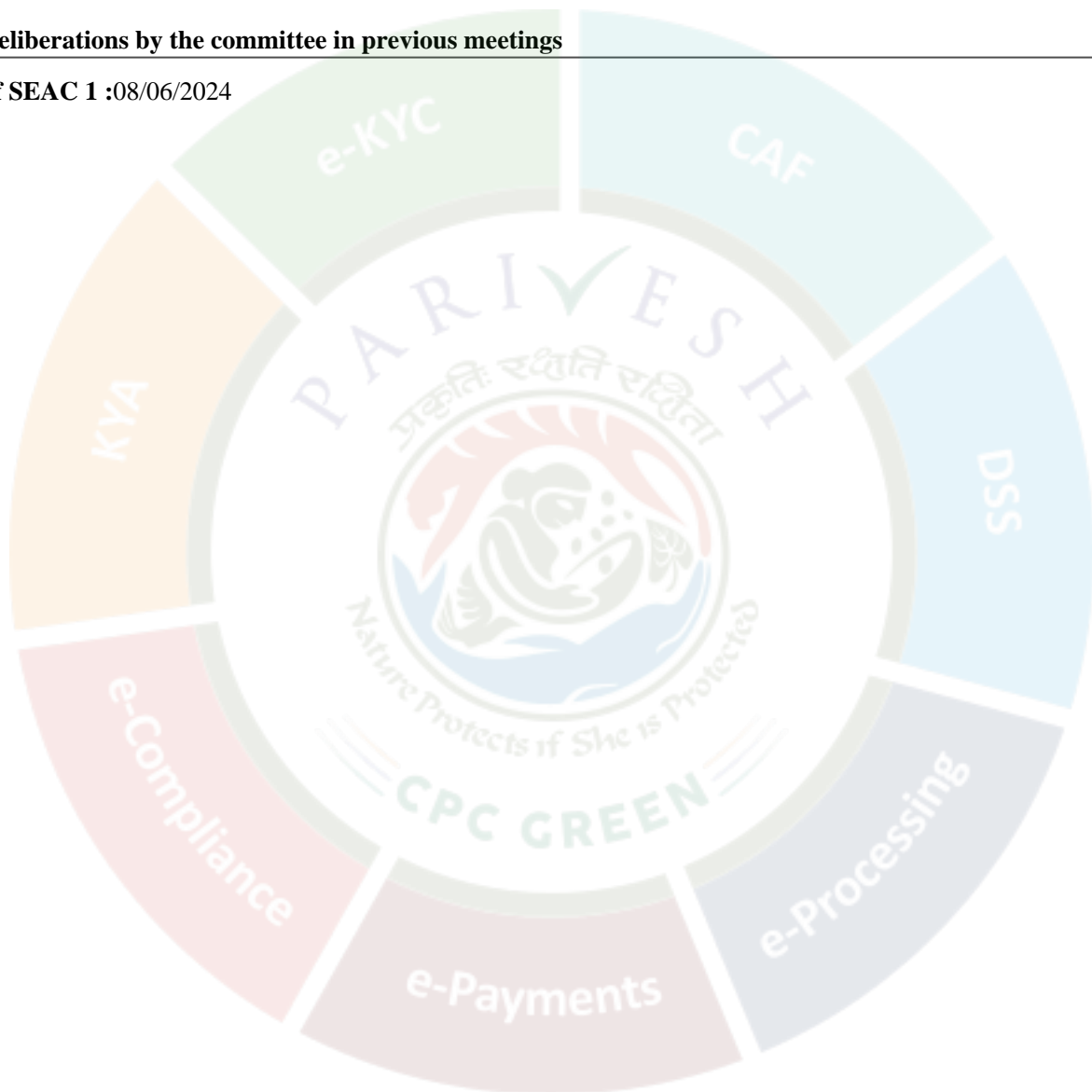
3.23. Agenda Item No 23:

3.23.1. Details of the proposal

Taherpur Sand Mine by ALOK SEN located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/476975/2024	2N-102/2023(E)	30/05/2024	Mining of minerals (1(a))

3.23.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024



Deliberations of SEAC 1 :

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the revised Mining Plan uploaded by the PP **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 - 1) Cluster Certificate from the competent authority.
 - 2) Drone videography of the entire project area explicitly showing the entire project site along with the existing tree plantation/green belt. Minimum 2 minute video to be submitted.
 - 3) Photographs of the site mentioning the geo-coordinates.
 - 4) Standard practice of management of the intermediate storage area should be submitted.
 - 5) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 - 6) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 - 7) The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 - 8) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approval/s.
 - 9) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 - 10) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 - 11) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 - 12) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates. The activities should be completed within the first two years of the project life.
 - 13) A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
 - 14) Management plan including the final closure plan of haul road to be submitted.
 - 15) Sieve analysis report for grain size distribution should be provided.
 - 16) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall upload the EIA/EMP report along with the documents / submissions / clarifications sought above in the PARIVESH portal while applying for environmental clearance.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.23.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/476975/2024** dated **30 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006. SEAC, during its 40th meeting held on 08.06.2024 SEAC recommended issuance of Standard Terms of Reference for EIA preparation for the project with additional conditions.

PROJECT DETAILS

The project of **Shri Alok Sen** located is as follows :

S. No.	State	District
(1)	West Bengal	Purba Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/476975/2024** in PARIVESH Portal.

SEIAA considered the recommendation of SEAC and approved ToR with the additional condition that potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.

3.23.4. Recommendation of SEIAA

Approved

3.23.5. Details of Terms of Reference

3.23.5.1. Specific

Annexure - A

Annexure

Executive Summary

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating information on following points:

- 1) Project name and location (Village, District, State, Industrial Estate (if applicable)).
- 2) Products and capacities. If expansion proposal, then existing products with capacities and reference to ear EC.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative).
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private la status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km. other industries, for eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora fauna, socio-economic condition of the nearby population.
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety sys provided to mitigate the risk.
- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population.
- 11) Emergency preparedness plan in case of natural or in plant emergencies.

- 12) Issues raised during public hearing (if applicable) and response given.
- 13) Environment Management Plan (EMP) as per Office Memorandum issued by the MoEF & CC vide F. 22-65/2017-IA.III dated 30.09.2020 with proposed expenditure.
- 14) Occupational Health Measures.
- 15) Post project monitoring plan.

B. Additional Terms of Reference imposed by SEAC –

1. Cluster Certificate from the competent authority.
2. Drone videography of the entire project area explicitly showing the entire project site along with existing tree plantation/green belt. Minimum 2 minute video to be submitted.
3. Photographs of the site mentioning the geo-coordinates.
4. Standard practice of management of the intermediate storage area should be submitted.
5. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the river will be attempted.
6. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
7. The PP has to do tree plantation in an area equivalent to 33% of the lease area @2500 trees / ha within the first two years from the starting of the mining operation. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside village roads or other public land. This may be done with prior approval of the local self-governing body. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of project life and the plantation so done shall be taken care of during the rest of the project life. Species of plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
8. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along with supporting documents of administrative approval/s.
9. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
10. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
11. The project cost may include the auction bid value, estimated royalty to be paid, cost of infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
12. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified intended beneficiaries (schools/ institutions etc) may also be uploaded. The activities should be completed within the first two years of the project life.
13. A study report on base flow level measured at 5 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
14. Management plan including the final closure plan of haul road to be submitted.
15. Sieve analysis report for grain size distribution should be provided.
16. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

While applying for environmental clearance, the PP shall upload in the PARIVESH portal, the EIA/EMP report along with the documents/ submissions/ clarifications sought hereinabove.

The West Bengal Pollution Control Board shall arrange public hearing as per EIA Notification, 2006 on the submission of draft EIA/EMP prepared by the Project Proponent as per the above-mentioned ToRs. All the issues

mentioned in the 'Public Hearing Report' and public consultation must also be addressed and incorporated in final EIA / EMP report. The project proponent is requested to pursue the matter with the WBPCB for organizing the public hearing/consultation on submission of the draft EIA/EMP report as per the provision of EIA notification 2006 & its amendments. The project proponent is requested to submit the final EIA/EMP prepared as per above-mentioned ToRs and incorporating all the issues raised during Public Hearing / Public Consultation to SEAC for further consideration of the proposal for environmental clearance.

The ToR is valid for a period of 3 (three) years from the date of issue.

A. STANDARD TERMS OF REFERENCE

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State Land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of prescribed operating process/procedures to bring into focus any infringement/deviation/violation of environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in case of such issues should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the details contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate

this regard as mentioned above be issued. In all such cases, it would be desirable for representative of State Forest Department to assist the Expert Appraisal Committees.

13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area details furnished. Impact of the project on the wildlife in the surrounding and any other protected area accordingly, detailed mitigative measures required, should be worked out with cost implications submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearances, as may be applicable to such projects due to proximity of the ecologically sensitive areas mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and Conservation and furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species should be authenticated, separately for core and buffer zone should be furnished based on such primary field surveys clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared after consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Air Pollution Control Range', (attracting court restrictions for mining operations), should also be indicated and where so required, necessary clearances/certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectorial programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. All issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) and December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data compiled and presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area. It is justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the study area. It should also take into account the impact of movement of vehicles for transportation of mineral. Details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on the aquifers. Necessary permission from Central Ground Water Authority for working below ground water table for pumping of ground water should also be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangements for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and cross sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given in different time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

	<p>41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of E should be clearly spelt out.</p> <p>42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.</p> <p>43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project should clearly indicate environmental, social, economic, employment potential, etc.</p> <p>44. Besides the above, the below mentioned general points are also to be followed:-</p> <ol style="list-style-type: none"> a. Executive Summary of the EIA/EMP Report (enclosed as Annexure – A). b. All documents to be properly referenced with index and continuous page numbering. c. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. d. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. e. Where the documents provided are in a language other than English, an English translation should be provided. f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry should also be filled and submitted. g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes. Permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) should entail conducting the PH again with the revised documentation. i. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. j. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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3.23.5.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA) operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited separately also, providing pillar coordinates and site layout plan. In such cases cumulative impact of mine operation with washery to be assessed and EMP measure to be drawn to the worst scenario

1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn												
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided												
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also												
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.												
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.												
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need eloboration in form of lengthe, quantity and quality of water to be diverted												
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.												
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.												
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing though the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.												
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.												
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights <table border="1"> <thead> <tr> <th rowspan="2">S.N</th> <th rowspan="2">ML/Project Land use</th> <th>Area under Surface</th> <th>Area Under Mining Rights(ha)</th> <th rowspan="2">Area under Both (ha)</th> </tr> <tr> <th>Rights(ha)</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface	Area Under Mining Rights(ha)	Area under Both (ha)	Rights(ha)	(ha)					
S.N	ML/Project Land use			Area under Surface	Area Under Mining Rights(ha)		Area under Both (ha)						
		Rights(ha)	(ha)										

	<table border="1"> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Grazing Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Others (specify)</td> <td></td> <td></td> <td></td> </tr> </table>	1	Agricultural land				2	Forest Land				3	Grazing Land				4	Settlements				5	Others (specify)			
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1.	<p>Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.</p>																									
1.	<p>One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SO_x, NO_x and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.</p>																									
1.	<p>Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.</p>																									
1.	<p>For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided</p>																									
1.	<p>A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact</p>																									

	on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart

	indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
1.	Corporate Environment Responsibility:
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
1.	e) Environment Managment Cell and its responsibilities to be clearly spleel out in EIA/ EMP report
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.

1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																								
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																								
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																								
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																								
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="2">Date of FC</th> <th rowspan="2">Extent of Forest Land</th> <th rowspan="2">Balance area for which FC is yet to be obtained</th> <th rowspan="2">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> </thead> <tbody> <tr> <td>(ha)</td> <td></td> <td>land (ha)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)							If more than one provide details of each FC				
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1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																								
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.																								
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes																								
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.																								
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report																								
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)																								
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.																								
1.	Potential impact study in the EIA should be done considering the cumulative effect of all the mines in the cluster situation, if any.																								

3.24. Agenda Item No 24:

3.24.1. Details of the proposal

Dumur Sand Mine by MADHUSUDAN ROY located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/444531/2023	2N-90/2024(E)	17/05/2024	Mining of minerals (1(a))

3.24.2. Deliberations by the committee in previous meetings

<p>Date of SEAC 1 :29/05/2024</p> <p>Deliberations of SEAC 1 :</p> <ul style="list-style-type: none"> Based on the submission and presentation made by the PP, the SEAC observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan falls within the potential mining zone recorded in the approved District Survey Report (DSR) of Purba Bardhaman district. However, considering the O.M. issued by MoEF&CC dated 28.04.2023 regarding compliance of order dated 07.12.2022 passed by Hon'ble NGT in O.A. 142 of 2022 in the matter of Jayant Kumar vs. MoEF&CC wherein it is mentioned that all concerned SEACs shall re-appraise the ECs issued by DEIAAs between 15.01.2016 and 13.09.2018 (including both days). It is also mentioned that the exercise shall be completed within a time period of one year from the date of issue of the OM. Considering the above, the committee (SEAC), therefore, decided that the ToR for EIA study cannot be issued for the proposed project. Hence the proposal may be forwarded to SEIAA for rejection.
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3.24.3. Deliberations by the SEIAA in current meetings

<p>INTRODUCTION</p> <p>The proponent made online application vide proposal no. SIA/WB/MIN/444531/2023 dated 17 May 2024 seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. 1(a) Mining of minerals projects under Category "B1" of EIA Notification 2006. The PP has obtained EC issued by DEIAA vide Memo No. Misc./1319/MM/DEIAA/2018 dated 05.12.2018. SEAC, during its 39th meeting held on 29.05.2024 noted that considering the O.M. issued by MoEF&CC dated 28.04.2023 regarding compliance of order dated 07.12.2022 passed by Hon'ble NGT in O.A. 142 of 2022 in the matter of Jayant Kumar vs. MoEF&CC wherein it is mentioned that all concerned SEACs shall re-appraise the ECs issued by DEIAAs between 15.01.2016 and 13.09.2018 (including both days). It is also mentioned that the exercise shall be completed within a time period of one year from the date of issue of the OM. Considering the above, SEAC decided that the ToR for EIA study cannot be issued for the proposed project.</p> <p>PROJECT DETAILS</p> <p>The project of Shri Madhusudan Roy located is as follows :</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>State</th> <th>District</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>West Bengal</td> <td>Purba Bardhaman</td> </tr> </tbody> </table> <p>The salient features of the project submitted by the project proponent is available under online proposal no. SIA/WB/MIN/444531/2023 in PARIVESH Portal. SEIAA considered the recommendation of SEAC and decided that the proposal is referred back to SEAC for reappraisal in light of MoEF&CC O.M. dated 07.05.2024.</p>	S. No.	State	District	(1)	West Bengal	Purba Bardhaman
S. No.	State	District				
(1)	West Bengal	Purba Bardhaman				

3.24.4. Recommendation of SEIAA

Refer-Back to SEAC for Reconsideration

3.25. Agenda Item No 25:

3.25.1. Details of the proposal

Shikarpur Sand Mine by MA SARBAMANGALA QUALITY SAND located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/475731/2024	2N-281/2023(E)	29/05/2024	Mining of minerals (1(a))

3.25.2. Deliberations by the committee in previous meetings

Date of SEAC 1 :08/06/2024

Deliberations of SEAC 1 :

- SEAC noted that this application for ToR was noted to be a duplicate one. An earlier application (Proposal No. SIA/WB/MIN/74040/2022 by **M/s. Ma Sarbamangala Quality Sand**) for the same project was considered in the 67th SEAC meeting held on 22.02.2023 and the SEAC requested the PP to submit additional clarification for the project. The PP has not uploaded the revised Mine Plan including the reserves as mentioned in the DSR.
- The PP did not appear before the SEAC for ToR presentation. Since the application was noted to be a duplicate one, the SEAC decided that the **present proposal for ToR may be rejected.**

Considering the above, the committee (SEAC), therefore, decided that the ToR for EIA study cannot be issued for the proposed project at this stage.

3.25.3. Deliberations by the SEIAA in current meetings

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/MIN/475731/2024** dated **29 May 2024** seeking Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proponent applied under SL. No. **1(a) Mining of minerals** projects under Category "**B1**" of EIA Notification 2006.

SEAC, during its 40th meeting held on 08.06.2024 noted that this application for ToR was noted to be a duplicate one. An earlier application (Proposal No. SIA/WB/MIN/74040/2022 by M/s. Ma Sarbamangala Quality Sand) for the same project was considered in the 67th SEAC meeting held on 22.02.2023 and the SEAC requested the PP to submit additional clarification for the project. The PP has not uploaded the revised Mine Plan including the reserves as mentioned in the DSR.

The PP did not appear before the SEAC for ToR presentation. Since the application was noted to be a duplicate one, the SEAC decided that the present proposal for ToR may be rejected.

PROJECT DETAILS

The project of **M/s. Ma Sarbamangala Quality Sand** located is as follows :

S. No.	State	District
(1)	West Bengal	Purba Bardhaman

The salient features of the project submitted by the project proponent is available under online proposal no. **SIA/WB/MIN/475731/2024** in PARIVESH Portal.
SEIAA considered the recommendation of SEAC to reject the proposal as it is duplicate one and decided to reject the proposal for ToR.

3.25.4. Recommendation of SEIAA

Reject

4. Any Other Item(s)

N/A

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Shri Dharmdeo Rai IFS	Member Secretary, SEIAA	env*****@gmail.com	
2	Dr Ashit Kumar Mukherjee	Chairman, SEIAA	ash*****@yahoo.com	
3	Dr Nilangshu Bhushan Basu	SEIAA Member	nb.*****@gmail.com	SEIAA member could not attend the meeting due to health reason.

MISCELLANEOUS

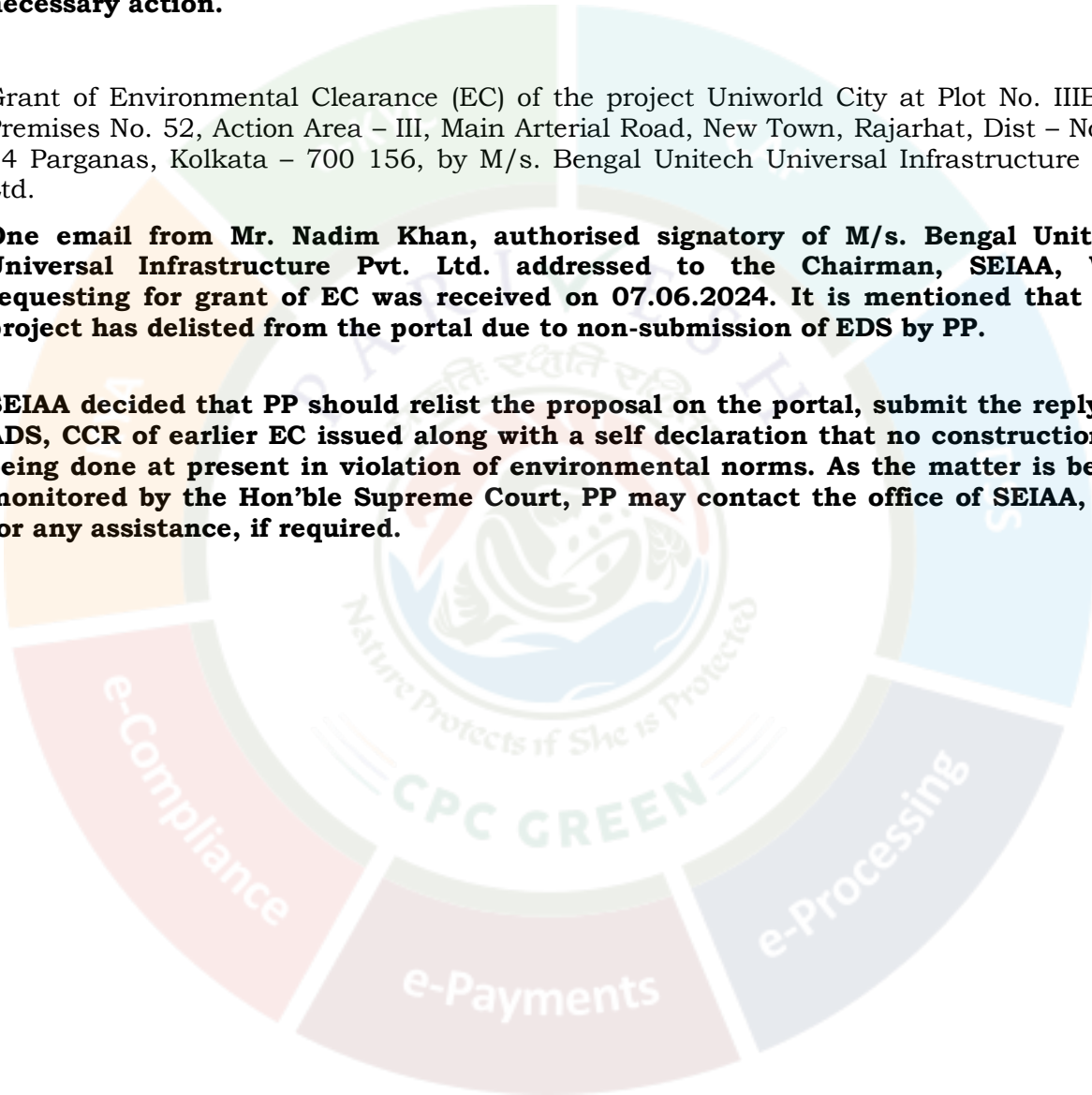
- (1) Letter received, vide No. 125-P&AR(Vig.) dated 24.05.2024, from the Department of Personnel and Administrative Reforms (Vigilance Cell), Government of West Bengal, regarding application under Section 19(1)(b) of the Prevention of Corruption Act, 1988 read with Section 8 of the Air (Prevention and Control of Pollution) Act, 1981, Section 197 CRPC, 1973 and Section 6 of the Water (Prevention and Control of Pollution) Act, 1974.

It was observed by SEIAA that all the projects mentioned in the complaint letter of Mr. Subrata Mallick are category A projects which are being appraised / given EC at the level of MoEF&CC and not SEIAA. The list of projects along with proposal no. at MoEF&CC is given as Annexure 1. As far as encroachment of different category of land is concerned, the respective departments may be informed for taking necessary action.

- (2) Grant of Environmental Clearance (EC) of the project Uniworld City at Plot No. IIIB/2, Premises No. 52, Action Area – III, Main Arterial Road, New Town, Rajarhat, Dist – North 24 Parganas, Kolkata – 700 156, by M/s. Bengal Unitech Universal Infrastructure Pvt. Ltd.

One email from Mr. Nadim Khan, authorised signatory of M/s. Bengal Unitech Universal Infrastructure Pvt. Ltd. addressed to the Chairman, SEIAA, WB, requesting for grant of EC was received on 07.06.2024. It is mentioned that the project has delisted from the portal due to non-submission of EDS by PP.

SEIAA decided that PP should relist the proposal on the portal, submit the reply to ADS, CCR of earlier EC issued along with a self declaration that no construction is being done at present in violation of environmental norms. As the matter is being monitored by the Hon'ble Supreme Court, PP may contact the office of SEIAA, WB for any assistance, if required.



Sl. No.	Proposal	Project proponent	Online proposal no. in PARIVESH Portal	File no.	Status of the proposal
1.	Proposed for expansion of 0.1 MTPA Integrated Steel Plant	M/s. Rajshri Iron Ind. Pvt. Ltd	IA/WB/IND/4422/2011(ToR) [Dealt at MoEF&CC as Category A project]	J-11011/35/2011-IA.II(I)	TOR GRANTED on 13.05.2011
2.	Super Smelters Ltd., Jamuria	SUPER SMELTERS LIMITED	IA/WB/IND/105757/2019 (ToR) IA/WB/IND/105757/2019 (EC) [Dealt at MoEF&CC as Category A project]	J-11011/86/2008-IA II (I)	TOR GRANTED EC GRANTED on 02.12.2019
3.	Proposed for integrated steel plant	M/s. Shivam Dhatu Udyog Pvt. Ltd	IA/WB/IND/2932/2011 (ToR) IA/WB/IND/2932/2011 (EC) [Dealt at MoEF&CC as Category A project]	J-11011/16/2011-IA.II(I)	TOR GRANTED on 11.03.2011 EC GRANTED on 31.10.2011
4.	Expansion of steel plant by installing sponge Iron Plant(60,000 TPA) ferro Alloy(2 x 9 MVA, 30,000 TPA) and captive power plant (12 MW) at Jamuria Industrial Estate, Ikra, Jamuria, Burdwan, West Bengal	CALSTAR SPONGE LIMITED	IA/WB/IND/73025/2011 (EC) [Dealt at MoEF&CC as Category A project]	J-11011/655/2009-IA II(I)	EC Granted on 20.05.2011
5.		MAAN STEEL AND POWER LIMITED	IA/WB/IND/30239/2010(EC) [Dealt at MoEF&CC as Category A project]	J-11011/695/2009-IA II (I)	EC Granted on 31.12.2010
6.		KUNJ BIHARI STEEL PRIVATE LIMITED	IA/WB/IND/50975/2004 (ToR) IA/WB/IND/50975/2004 (EC) [Dealt at MoEF&CC as Category A project]	32-2N-436/2014	TOR GRANTED EC GRANTED
7.	Expansion of existing Sponge Iron Plant and CPP by Installation of 2x9 MVA Submerged Arc Furnaces at Village Ikra, Jamuria, Jamuria Industrial Estate, District Burdwan, West Bengal by M/s Bhagwati Spo	RAIC INTEGRATED SPONGE AND POWER PRIVATE LIMITED	IA/WB/IND/135721/2020(EC) [Dealt at MoEF&CC as Category A project]	J-11011/223/2012-IA.II(I)	EC GRANTED on 19.02.2016 (EC not available – Error message)
8.	Setting up of Sponge Iron & Steel Plant	M/s AIC Iron Industries Private Limited	IA/WB/IND/5663/2010(ToR) IA/WB/IND/5663/2010(EC) [Dealt at MoEF&CC as Category A project]	J-11011/566/2008-IA.II(I)	TOR Granted on 11.11.2008 EC Granted on 27.08.2010
9.	Expansion of Steel Plant (0.3 MTPA) and Captive Power Plant (12MW)	M/s Gagan Ferrotech Ltd.	IA/WB/IND/22096/2010(ToR) IA/WB/IND/22096/2010 (EC) [Dealt at MoEF&CC as Category A project]	J-11011/232/2010-IA-II(I)	TOR Granted on 15.09.2010 EC Granted on 11.03.2015
10.	Proposed Integrated Steel Plant	M/s. Shyam Steel Limited	IA/WB/IND/6700/2008(EC) [Dealt at MoEF&CC as Category A project]	J-11011/887/2007.-IA.II(I)	EC Granted on 18.03.2009