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**State Environment Impact Assessment Authority**  
**West Bengal**  
**Minutes of SEIAA Meeting**  
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Subject: **33<sup>rd</sup> meeting of SEIAA (Reconstituted on 17.05.2023)**  
Venue:- **Conference Room of Environment Department, Prani Sampad Bhavan, 5<sup>th</sup> Floor, LB – Block, Sector – III, Salt Lake, Kolkata – 700106**  
From :- **23 February 2024**  
To :- **23 February 2024**

**CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE**

(1) Proposed Residential Complex 'Utsodhaara HIG-1' at Plot No. – HIG-1 at Utsodhaara: Teesta Township, JL No. 02, Mouza- Dabgram, Block- Rajganj, P.S.- New Jalpaiguri, P.O.- Satellite Township, Pin – 734015, West Bengal by **M/s. Ambuja Neotia Teesta Development Pvt. Ltd.**

**Proposal No. :- SIA/WB/INFRA2/412503/2022, File No. : EN/T-II-1/041/2023, Type-EC**

**INTRODUCTION**

The proponent made online application vide proposal no. **SIA/WB/INFRA2/412503/2022** dated **19 January 2023** seeking environment clearance under the provisions of the EIA Notification, 2006 for the above-mentioned project. The proposed project activity is listed at SL. No. **8(a) Building / Construction** projects under Category "**B2**" of EIA Notification 2006.

SEAC recommended the proposed project for Environmental Clearance during its 70<sup>th</sup> meeting held on 15.03.2023.

Earlier the proposal was placed before SEIAA in its 94<sup>th</sup> meeting held on 13.04.2023, 96<sup>th</sup> meeting held on 25.04.2023, 3<sup>rd</sup> meeting held on 09.06.2023 and 19<sup>th</sup> meeting held on 06.10.2023. The application for EC was deferred for additional information.

The PP has uploaded their submission on 15.02.2024 vide letter no. NIL dated 14.02.2024. The PP is requested to appear for a hearing before SEIAA on 23.02.2024.

**PROJECT DETAILS**

The project of **M/s. Ambuja Neotia Teesta Development Pvt. Ltd.** located in as follows :

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

**DELIBERATION IN SEIAA**

**SEIAA heard the submissions of the project proponent.**

**SEIAA vide in its meeting dated 13.04.2023, 25.04.2023, 09.06.2023 and 06.10.2023 raised ADS communicating to the PP to apply for EC of the entire township. This inference was**

**drawn on the basis of LUCC of Utsodhaara - Teesta Township submitted by the PP along with other documents. The LUCC mentions maximum permissible FAR area (Floor Area Ratio) of 632665.81 sqm. PP in reply to ADS claimed that for township project EIA notification mentions only built up area and not FAR area. Therefore, the project would not come under item 8(b) of the schedule of EIA notification.**

**RECOMMENDATIONS OF SEIAA**

**The application for EC is referred back to SEAC for reappraisal.**

**CONCLUSION**

**Referred back to SEAC.**

**MISCELLANEOUS**

**1. Order of Hon'ble High Court dated 09.01.2024 related to Gems City.**

**SEIAA studied the order of Hon'ble High Court dated 09.01.2024 related to Gems City and decided to write to West Bengal State Electricity Distribution Company Ltd. to submit the compliance report. It also decided to ask action taken report from DM, South 24 Parganas, Sabhadhipati, South 24 Parganas Zilla Parishad with reference to Memo No. 60/EN/T-II-1/077/2012 dated 09.01.2023 and 61/EN/T-II-1/077/2012 dated 09.01.2023 respectively.**

**List of the projects which were placed before the SEIAA, WB in the thirty third meeting held on 23.02.2024 and the Summary Decisions thereof:**

<b>Sl. No.</b>	<b>Proposal</b>	<b>Summary Decision</b>
<b>CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE</b>		
1.	Proposed Residential Complex 'Utsodhaara HIG-1' at Plot No. – HIG-1 at Utsodhaara: Teesta Township, JL No. 02, Mouza- Dabgram, Block- Rajganj, P.S.- New Jalpaiguri, P.O.- Satellite Township, Pin – 734015, West Bengal by <b>M/s. Ambuja Neotia Teesta Development Pvt. Ltd.</b> (Proposal No. <b>SIA/WB/INFRA2/412503/2022</b> )	<b>Referred back to SEAC</b>
<b>MISCELLANEOUS</b>		
1.	Order of Hon'ble High Court dated 09.01.2024 related to Gems City.	<b>West Bengal State Electricity Distribution Company Ltd. asked to submit compliance report</b>



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



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**Minutes of 33rd meeting of SEIAA (Reconstituted on 17.05.2023) State Environment Impact Assessment Authority meeting held from 23/02/2024 to 23/02/2024**      **Date:** 06/03/2024

<b>MoM ID:</b>	EC/MOM/SEIAA/450004/2/2024	
<b>Agenda ID:</b>	EC/AGENDA/SEIAA/450004/2/2024	
<b>Meeting Venue:</b>	Conference Room of Environment Department, Prani Sampad Bhavan, 5th Floor, LB Block, Sector III, Salt Lake, Kolkata 700106.	
<b>Meeting Mode:</b>	Physical	
<b>Date &amp; Time:</b>		
	23/02/2024	02:30 PM
		05:30 PM

**1. Opening remarks**

SEIAA members greeted each other and started discussion point wise as per the agenda.

**2. Confirmation of the minutes of previous meeting**

Minutes of meeting of 32nd Meeting of SEIAA, WB is uploaded in the PARIVESH 1.0 Portal.

**3. Details of proposals considered by the committee**

**Day 1 -23/02/2024**

**3.1. Agenda Item No 1:**

**3.1.1. Details of the proposal**

<b>Environmental Clearance of existing Rolling Mill for production of 1500 Ton per month Re-rolled M.S. Items (Flats, Angles, Channels etc.) at Dhulagori Industrial Park, Vill - Jala Dhulagori, P.O &amp; P.S - Sankrail, Howrah - 711302 by M/s. Giriraj Ispat Pvt. Ltd. (Unit - 1) by GIRIRAJ ISPAT PRIVATE LIMITED located at HOWRAH, WEST BENGAL</b>			
<b>Proposal For</b>		Fresh ToR	
<b>Proposal No</b>	<b>File No</b>	<b>Submission Date</b>	<b>Activity (Schedule Item)</b>
SIA/WB/IND1/457825/20	2N-36/2024(E)	11/01/2024	Metallurgical Industries (ferrous a

24			nd non ferrous) (3(a))
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### 3.1.2. Deliberations by the committee in previous meetings

<p><b>Date of SEAC 1 :</b>31/01/2024</p> <p><b>Deliberations of SEAC 1 :</b></p> <ul style="list-style-type: none"> <li>Based on the application made, documents uploaded / submitted, and the presentation made by the PP/Consultant, the SEAC made the following observations:-</li> </ul> <p><b>Mandatory documents:</b></p> <ol style="list-style-type: none"> <li>The PP should submit Certified Compliance Report (CCR) from the MoEF&amp;CC as directed in the Notification issued vide F No. IA3-22/10/2022-IA.III[E 177258] dated 08.06.2022.</li> <li>Land documents for the entire project area of 1.47 Acre (5948.88 sqm). Land conversion and mutation in the name of the project proponent should be provided.</li> <li>Detailed layout plan for the project, complete area statement in sqm. and percentage totaling to 100% (table wise) should be submitted.</li> <li>Both reheating furnace and pulveriser to be equipped with cyclone separator and bag filter in series. Detailed plan in this regard should be submitted.</li> </ol> <p><b>Greenbelt and plantation:</b></p> <ol style="list-style-type: none"> <li>Full details of compensatory plantation area including status of land conversion and mutation in the name of the PP should be submitted.</li> </ol> <p><b>Need based EMP:</b></p> <ol style="list-style-type: none"> <li>EMP as per Office Memorandum of MoEF &amp; CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consents from the beneficiaries of the social part of EMP should be furnished. Any other local need should be identified.</li> </ol> <p><b>Water and waste water:</b></p> <ol style="list-style-type: none"> <li>Permission from the Competent Authority for water requirement of 13.32 KLD.</li> </ol> <p><b>Recommendation :</b></p> <p>SEAC, taking into account the salient features of the proposed project, recommended that Terms of Reference may be issued for EIA study of the proposed project. In addition to the standard ToR the above additional terms/ conditions may be made a part of the ToR. Status of the compliance of the conditions stipulated may be furnished along with the application for Environmental Clearance application.</p> <p>All the documents should be duly signed both by the project proponent and environmental the consultant.</p>
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### 3.1.3. Deliberations by the SEIAA in current meetings

<p>SEIAA considered the recommendation of SEAC and accepted the same. SEIAA approved the proposal for ToR with the additional condition that the need based activities plan containing year-wise allocation of funds for each of the activities proposed, specific information related to each activity like name of school/institution, location etc and name of Govt. bodies/agencies in collaboration with whom each activity would be executed should be submitted with the EIA Report. The need based activity should be completed within a period of two years.</p>
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### 3.1.4. Recommendation of SEIAA

Approved
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### 3.1.5. Details of Terms of Reference

#### 3.1.5.1. Specific

<b>Additional Terms of Reference imposed by SEAC –</b>	
1.	<b>Mandatory documents</b>

1. The PP should submit Certified Compliance Report (CCR) from the MoEF&CC as directed in the Notification issued vide F No. IA3-22/10/2022-IA.III[E 177258] dated 08.06.2022.
2. Land documents for the entire project area of 1.47 Acre (5948.88 sqm). Land conversion and mutation in the name of the project proponent should be provided.
3. Detailed layout plan for the project, complete area statement in sqm. and percentage totaling to 100% (table wise) should be submitted.
4. Both reheating furnace and pulveriser to be equipped with cyclone separator and bag filter in series. Detailed plan in this regard should be submitted.

**Greenbelt and plantation**

5. Full details of compensatory plantation area including status of land conversion and mutation in the name of the PP should be submitted.

**Need based EMP**

6. EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consents from the beneficiaries of the social part of EMP should be furnished. Any other local need should be identified.

**Water and waste water**

7. Permission from the Competent Authority for water requirement of 13.32 KLD.

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

**SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON-FERROUS)**

- 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.

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

2. The need based activities plan containing year-wise allocation of funds for each of the activities proposed, specific information related to each activity like name of school/institution, location etc and name of Govt. bodies/agencies in collaboration with whom each activity would be executed should be submitted with the EIA Report. The need based activity should be completed within a period of two years.

### 3.1.5.2. Standard

3(a)	<b>Metallurgical Industries (ferrous and non ferrous)</b>					
<b>Additional Studies</b>						
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.	Emergency response and preparedness plan					
1.	<p>Risk assessment</p> <ul style="list-style-type: none"> <li>• Methodology</li> <li>• Hazard identification</li> <li>• Frequency analysis</li> <li>• Consequence analysis</li> <li>• Risk assessment outcome</li> </ul>					
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						
1.	<b>Physical activity and action plan</b>		<b>Year of implementation (Budget in INR)</b>			<b>Total Expenditure (Rs. in Crores)</b>
	<b>Name of the Activity</b>	<b>Physical Targets</b>	<b>1st</b>	<b>2nd</b>	<b>3rd</b>	
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.	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.					

<b>Analysis of Alternatives (Technology &amp; Site)</b>				
1.	Site alternative			
1.	No project scenario			
1.	Conclusion			
1.	Technical and social concerns			
<b>Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)</b>				
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.	Identification of potential impacts in the form of a matrix for the construction and operation phase for all the environment components			
	<b>Activity</b>	<b>Environment</b>	<b>Ecological</b>	<b>Socio-economic</b>
	Construction phase			
	Operation phase			
1.	Impact on occupational health and safety (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 terrestrial and aquatic habitat (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 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 soil 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 ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase			



Description of the Environment				
1.	Study period			
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.			
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.	Approach and methodology for data collection as furnished below			
	Attributes	Sampling		Remarks
		Network	Frequency	
	Air Environment			
Micro-Meteorological	Minimum 1 site in the project impact area	hourly continuous	IS 5182 Part 1-20 <ul style="list-style-type: none"> <li>• Site specific primary data is essential</li> <li>• Secondary data from IMD, New Delhi</li> <li>• CPCB guidelines to be considered.</li> </ul>	
Pollutants	At least 8-12 locations	As per National Ambient Air Quality Standards,CPCB Notification.	<ul style="list-style-type: none"> <li>• Sampling as per CPCB guidelines</li> <li>• Collection of AAQ data (except in monsoon season)</li> <li>• Locations of various stations for different parameters should be related to the characteristic properties of the parameters.</li> <li>• 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,</li> <li>• Raw data of all AAQ</li> </ul>	

			<p>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			
Hourly equivalent noise levels	At least 8-12 locations	as per CPCB norms	
Water			
<p>Parameters for water quality</p> <ul style="list-style-type: none"> <li>pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity</li> <li>Total nitrogen, total phosphorus, DO, BOD, COD, Phenol</li> <li>Heavy metals</li> <li>Total coliforms, faecal coliforms</li> <li>Phyto plankton</li> <li>Zoo plankton</li> </ul>	<p>Samples for water quality should be collected and analyzed as per:</p> <ul style="list-style-type: none"> <li>IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents</li> <li>Standard methods for examination of water and wastewater analysis published by American Public Health Association</li> </ul>		
<p>For River Bodies</p> <ul style="list-style-type: none"> <li>Total Carbon</li> <li>pH</li> <li>Dissolved Oxygen</li> <li>Biological Oxygen Demand</li> <li>Free NH4</li> <li>Boron</li> <li>Sodium Absorption Ratio</li> <li>Electrical Conductivity</li> </ul>	<p>Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies</p>	<ul style="list-style-type: none"> <li>Yield of water sources to be measured during critical season</li> <li>Standard methodology for collection of surface water (BIS standards)</li> </ul>	
For Ground Water	<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>		
Traffic Study			

<p>Type of vehicles</p> <ul style="list-style-type: none"> <li>• Frequency of vehicles for transportation of materials</li> <li>• Additional traffic due to proposed project</li> </ul>	<p>Land Environment</p>
<p>Soil</p> <ul style="list-style-type: none"> <li>• Particle size distribution</li> <li>• Texture</li> <li>• pH</li> <li>• Electrical conductivity</li> <li>• Cation exchange capacity</li> <li>• Alkali metals</li> <li>• Sodium Absorption Ratio (SAR)</li> <li>• Permeability</li> <li>• Water holding capacity</li> <li>• Porosity</li> </ul>	<p>Soil samples be collected as per BIS specifications</p>
<p>Land use/Landscape</p> <ul style="list-style-type: none"> <li>• Location code</li> <li>• Total project area</li> <li>• Topography</li> <li>• Drainage (natural)</li> <li>• Cultivated, forest, plantations, water bodies, roads and settlements</li> </ul>	
<p>Biological Environment</p>	
<p>1. Aquatic</p> <ul style="list-style-type: none"> <li>• Primary productivity</li> <li>• Aquatic weeds</li> <li>• Enumeration of phyto plankton, zoo plankton and benthos</li> <li>• Fisheries</li> <li>• Diversity indices</li> <li>• Trophic levels</li> <li>• Rare and endangered species</li> <li>• Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ)</li> </ul> <p>2. Terrestrial</p> <ul style="list-style-type: none"> <li>• Vegetation-species list, economic importance, forest produce, medicinal</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site.</li> <li>• For forest studies, direction of wind should be considered while selecting forests.</li> <li>• Secondary data to collect from Government offices, NGOs, published literature.</li> </ul>

<ul style="list-style-type: none"> <li>value</li> <li>• Importance value index (IVI) of trees</li> <li>• Fauna</li> <li>• Avi fauna</li> <li>• Rare and endangered species</li> <li>• Sanctuaries / National park / Biosphere reserve</li> <li>• Migratory routes</li> </ul>	
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socio-economic

<p>Demographic structure</p> <ul style="list-style-type: none"> <li>• Infrastructure resource base</li> <li>• Economic resource base</li> <li>• Health status: Morbidity pattern</li> <li>• Cultural and aesthetic attributes.</li> <li>• Education</li> </ul>	<p>Socio-economic survey is based on proportionate, stratified and random sampling method.</p> <ul style="list-style-type: none"> <li>• Primary data collection through questionnaire</li> <li>• Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. agencies</li> </ul>
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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"> <li>• Wind speed (Hourly)</li> <li>• Wind direction</li> <li>• Dry bulb temperature</li> <li>• Wet bulb temperature</li> <li>• Relative humidity</li> <li>• Rainfall</li> <li>• Solar radiation</li> <li>• Cloud cover</li> <li>• Environmental</li> <li>• Lapse Rate</li> </ul>	<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"> <li>• Site specific primary data is essential</li> <li>• Secondary data from IMD, New Delhi</li> <li>• CPCB guidelines to be considered.</li> </ul>
<p>Pollutants</p> <ul style="list-style-type: none"> <li>• PM10</li> <li>• SO2</li> <li>• NOx</li> <li>• CO</li> <li>• HC</li> <li>• Other parameters relevant to the project and topography of the area</li> </ul>	<p>At least 8-12 locations</p>	<p>As per National Ambient Air Quality Standards, CPCB Notification.</p>	<ul style="list-style-type: none"> <li>• Sampling as per CPCB guidelines</li> <li>• Collection of AAQ data (except in monsoon season)</li> <li>• Locations of various stations for different parameters should be related to the characteristic properties of the</li> </ul>

			<ul style="list-style-type: none"> <li>parameters.</li> <li>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,</li> <li>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.</li> </ul>
Noise			
Hourly equivalent noise levels	At least 8-12 locations	s per CPCB norms	
Water			
Parameters for water quality <ul style="list-style-type: none"> <li>pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity</li> <li>Total nitrogen, total phosphorus, DO, BOD, COD, Phenol</li> <li>Heavy metals</li> <li>Total coliforms, faecal coliforms</li> <li>Phyto plankton</li> <li>Zoo plankton</li> </ul>	Samples for water quality should be collected and analyzed as per: <ul style="list-style-type: none"> <li>IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents</li> <li>Standard methods for examination of water and wastewater analysis published by American Public Health Association</li> </ul>		
For River Bodies <ul style="list-style-type: none"> <li>Total Carbon</li> </ul>	Surface water quality of the nearest River (60m upstream)	<ul style="list-style-type: none"> <li>Yield of water sources to be measured during critical season</li> <li></li> </ul>	

<ul style="list-style-type: none"> <li>• pH</li> <li>• Dissolved Oxygen</li> <li>• Biological Oxygen Demand</li> <li>• Free NH<sub>4</sub></li> <li>• Boron</li> <li>• Sodium Absorption Ratio</li> <li>• Electrical Conductivity</li> </ul>	<p>and downstream) and other surface water bodies</p>	<p>Standard methodology for collection of surface water (BIS standards)</p>
<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"> <li>• Frequency of vehicles for transportation of materials</li> <li>• Additional traffic due to proposed project</li> </ul>	<p>Land Environment</p>	
<p>Soil</p> <ul style="list-style-type: none"> <li>• Particle size distribution</li> <li>• Texture</li> <li>• pH</li> <li>• Electrical conductivity</li> <li>• Cation exchange capacity</li> <li>• Alkali metals</li> <li>• Sodium Absorption Ratio (SAR)</li> <li>• Permeability</li> <li>• Water holding capacity</li> <li>• Porosity</li> </ul>	<p>Soil samples be collected as per BIS specifications</p>	
<p>Land use/Landscape</p> <ul style="list-style-type: none"> <li>• Location code</li> <li>• Total project area</li> <li>• Topography</li> <li>• Drainage (natural)</li> </ul> <p>Cultivated, forest, plantations, water bodies, roads and settlements</p>		
<p>Biological Environment</p>		
<p>1. Aquatic</p> <ul style="list-style-type: none"> <li>• Primary productivity</li> <li>• Aquatic weeds</li> <li>• Enumeration of phyto plankton, zoo</li> </ul>	<ul style="list-style-type: none"> <li>• 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</li> </ul>	

<ul style="list-style-type: none"> <li>plankton and benthos</li> <li>Fisheries</li> <li>Diversity indices</li> <li>Trophic levels</li> <li>Rare and endangered species</li> <li>Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ)</li> </ul> <p>2. Terrestrial</p> <ul style="list-style-type: none"> <li>Vegetation-species list, economic importance, forest produce, medicinal value</li> <li>Importance value index (IVI) of trees</li> <li>Fauna</li> <li>Avi fauna</li> <li>Rare and endangered species</li> <li>Sanctuaries / National park / Biosphere reserve</li> <li>Migratory routes</li> </ul>	<p>project would result in to any adverse effect on any species.</p> <ul style="list-style-type: none"> <li>Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site.</li> <li>For forest studies, direction of wind should be considered while selecting forests.</li> <li>Secondary data to collect from Government offices, NGOs, published literature.</li> </ul>
socio-economic	
<p>Demographic structure</p> <ul style="list-style-type: none"> <li>Infrastructure resource base</li> <li>Economic resource base</li> <li>Health status: Morbidity pattern</li> <li>Cultural and aesthetic attributes.</li> <li>Education</li> </ul>	<p>Socio-economic survey is based on proportionate, stratified and random sampling method.</p> <ul style="list-style-type: none"> <li>Primary data collection through questionnaire</li> <li>Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. agencies</li> </ul>

**Environmental Monitoring Program**

Action plan for post-project environment monitoring matrix:						
Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility	
Construction phase						
1.						
Operation phase						

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</p>
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	<p>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.	Performance monitoring schedule for all pollution control devices shall be furnished.
1.	Details of the Environment Management Cell
<b>Environment Cost Benefit Analysis</b>	
1.	Net present value
1.	Internal rate of return
1.	Benefit cost ratio
1.	Cost effectiveness analysis
<b>Environment Management Plan (Construction and Operation phase)</b>	
1.	Action plan for hazardous waste management
1.	Action plan for fugitive emission control in the plant premises shall be provided.
1.	Action plan to limit the dust emission from all the stacks below 30 mg/Nm <sup>3</sup> shall be furnished.
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.	An Action Plan for improving the house-keeping activities in the raw material handling area need to be submitted
1.	Explore possibilities for recycling and reusing of treated water in the unit to reduce the freshwater demand and waste disposal.
1.	Total capital cost and recurring cost/annum for environment pollution control measures shall be included.
1.	Wildlife conservation plan (In case of presence of schedule I species)
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.	Plan for maximum usage of waste water/treated water in the Unit
1.	Rain water harvesting plan



1.	Action plan for construction and demolition waste management.
1.	Action plan for plastic waste management, considering the Plastic Waste Management Rules 2016.
1.	Action plan for e-waste management.
1.	Action plan for solid waste management
<b>Executive Summary</b>	
1.	Socio-economic management plan
1.	Key pollution concerns
1.	Operational activity
1.	Resource requirements (Land; water; fuel; manpower)
1.	Location and accessibility
1.	Name of the project along with applicable schedule and category as per EIA, 2006.
1.	Point wise compliance to the ToR issued by MoEF&CC.
1.	Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.
1.	Project cost and EMP implementation budget.
1.	Soil quality
1.	Ground water quality
1.	Surface water quality
1.	Traffic study
1.	Ambient Noise quality
1.	Effluent management plan
1.	Solid and hazardous waste management plan
1.	Air quality management plan
1.	Action plan to address the issues raised during public consultation as per MoEF&CC O.M. dated 30/09/2020
1.	Public consultation
1.	Risk assessment
1.	Social Parameters
1.	Green Belt

1.	Emission and discharge from the plant
1.	Noise quality management plan
1.	Ambient air, noise, water and soil quality
1.	null
1.	Impact on socio-economic environment
1.	Impact on terrestrial and aquatic habitat
1.	Impact on ground water resource and quality
1.	Impact on surface water resource and quality
1.	Impact on road and traffic
1.	Impact on ambient noise quality
1.	Impact on ambient air quality
1.	Socio-economic environment
1.	Land use
1.	Biological Environment
1.	Storm water management plan
1.	Occupational health and safety management plan
1.	Green belt development plan
1.	Ambient air quality
<b>Introduction</b>	
1.	Purpose of the EIA study
1.	Scope of the EIA study
1.	Background about the project
1.	Need of the project
<b>Preliminary requirements</b>	
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.

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.
<b>Project Benefits</b>	
1.	Other tangible benefits
1.	Environment benefits
1.	Social infrastructure
1.	Employment and business opportunity
<b>Project description</b>	
1.	Man-power requirement.
1.	Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
1.	Water balance diagram
1.	Total requirement of surface/ ground water and power with their respective sources, status of approval.
1.	Consolidated materials and energy balance for the project.
1.	Manufacturing process details along with process flow diagram of proposed units.
1.	Other than raw materials, other chemicals and materials required with quantities and storage capacities.
1.	List of raw materials required and their source along with mode of transportation.
1.	Site preparatory activities.
1.	If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
1.	Status of Forest Clearance for the use of forest land 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.	A detailed report covering all aspects of Fire Safety Management and Fire Emergency Plan shall be submitted.
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.	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.	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.	Type of land, land use of the project site needs to be submitted.
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.	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 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.	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.	Environment settings of the site and its surrounding along with map.
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.	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.	Site accessibility
1.	Location of the project site covering village, Taluka/Tehsil, District and State.
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.
1.	In case of expansion projects, project proponent shall submit structural stability certificate showing whether existing structure withstand for proposed expansion activity.

1.	Cost of project and scheduled time of completion.
1.	Products with capacities in Tons per Annum for the proposed project.
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.	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.	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.
<b>null</b>	
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.	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 <sup>3</sup> shall be furnished.
1.	Action plan for 100 % solid waste utilization shall be submitted.
1.	PM (PM <sub>10</sub> and P <sub>2.5</sub> ) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM <sub>10</sub> to be carried over.
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.

### 3.2. Agenda Item No 2:

#### 3.2.1. Details of the proposal

<b>Environmental Clearance for Proposed Residential Complex 'UTPALAA' by AMBUJA REALTY DEVELOPMENT LIMITED located at KOLKATA, WEST BENGAL</b>			
<b>Proposal For</b>		Fresh ToR	
<b>Proposal No</b>	<b>File No</b>	<b>Submission Date</b>	<b>Activity (Schedule Item)</b>
SIA/WB/INFRA2/458121/2024	2N-35/2024(E)	09/01/2024	Townships/ Area Development Projects / Rehabilitation Centres (8(b))

#### 3.2.2. Deliberations by the committee in previous meetings

<p><b>Date of SEAC 1 :31/01/2024</b></p>
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**Deliberations of SEAC 1 :**

• 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) All sanctioned drawings, including individual floor plans and sections, land use plan as mentioned in the Notification issued by SEIAA vide No. 2495/EN-TII/011/2018 dated 17.12.2019.
- 2) Land records showing the current status of conversion and mutation in the name of the PP.
- 3) Clearance from East Kolkata Wetland Management Authority.
- 4) Historical Google map of the project location to be provided.
- 5) The EIA report should include an exhaustive study on migratory birds, small animals and the local biodiversity along with the possible impact of the proposed project on them. A conservation plan for the endangered species, if any, should also be submitted.

**Water and wastewater:**

- 6) Fresh water treatment plant should be shown on the sanctioned plan. In the flowsheet of fresh water treatment plant, backwash and regeneration lines are to be shown. Spent brine (used for regeneration of the softener) solution to be routed through the STP and the efficacy of the bio-STP should be examined with the NaCl-load contributed by spent regenerant.
- 7) Fresh water (and treated water) analysis report including arsenic should be provided and if required, an arsenic removal plant should be arranged with the fresh water treatment plant.
- 8) Drainage plan and permission to be submitted.
- 9) Detailed design and working principle of the proposed STP should be submitted. The footprint of such a plant should be shown on the sanctioned plan.
- 10) Details of the tertiary treatment at the STP to be provided.
- 11) Since the proposed STP operates under a relatively new technology, efficacy of the STP should be submitted.
- 12) Expected quality of treated wastewater coming out of the STP should be furnished.
- 13) The subsurface lithology and design of the bore wells should be submitted. Location and pumping schedule of the borewells should be submitted.
- 14) A hydrogeological study mentioning the groundwater levels at selected network stations, depth to water level map, water level elevation contour map, and the amount of discharge of groundwater vis-a-vis recharge in the aquifer underlying the project area should be submitted.
- 15) The impact of the basement on the shallow groundwater flow should also be submitted.
- 16) Location of borewells outside the project site should be submitted.
- 17) Impact of pumping of groundwater on the aquifer within 5 km radius of the project site.
- 18) Flowmeter with totalizer to be provided at all inlet, outlet and recycle lines and the recorded values should be submitted with periodical compliance reports.
- 19) Regular monitoring and reporting (with periodical compliance reports) of the groundwater level by constructing a piezometer is necessary. The lithology and design of the piezometer should also be submitted.

**Rainwater harvesting and recharge:**

- 20) Location of rainwater harvesting tank and recharge pits to be indicated on the sanctioned plan. The design of recharge structures should be submitted.

**Need based activity/social part of EMP:**

- 21) Need-based EMP as per Office Memorandum of MoEF & CC vide F. No. 22- 65/2017.IA.III dated 30.09.2020 to be submitted.
- 22) Consents from the beneficiaries of the social part of EMP should be furnished.

**Plantation plan/greenbelt/Biodiversity:**

- 23) Existing trees to be marked in DFO approved plantation plan.
- 24) Species of plants, to be planted on the bio-STP, should be indicated.

**Emission:**

- 25) Height of stacks attached to DG sets should be indicated.

**Recommendation:**

Having taken into account the salient features of the proposed project, the SEAC recommended that Terms of Reference may be issued for EIA study of the proposed project. In addition to the standard ToR, the above additional terms / conditions may be made a part of the ToR. Status of the compliance of the conditions stipulated may be furnished along with the application for Environmental Clearance application.

While applying for the environmental clearance, the proponent shall upload the EIA/EMP report along with the documents/ sought above. All the documents should be duly signed by the project proponent and the environmental consultant.

SEIAA considered the recommendation of SEAC and accepted the same. SEIAA approved the proposal for ToR with the additional condition that The need based activities plan containing year-wise allocation of funds for each of the activities proposed, specific information related to each activity like name of school/institution, location etc. and name of Govt. bodies/agencies in collaboration with whom each activity would be executed should be submitted with the EIA Report. The need based activity should be completed within a period of first two years of the project life.

### 3.2.4. Recommendation of SEIAA

Approved

### 3.2.5. Details of Terms of Reference

#### 3.2.5.1. Specific

#### Additional conditions imposed by SEAC -

##### Mandatory documents

1. All sanctioned drawings, including individual floor plans and sections, land use plan as mentioned in the Notification issued by SEIAA *vide* No. 2495/EN-T-II/011/2018 dated 17.12.2019.
2. Land records showing the current status of conversion and mutation in the name of the PP.
3. Clearance from East Kolkata Wetland Management Authority.
4. Historical Google map of the project location to be provided.
5. The EIA report should include an exhaustive study on migratory birds, small animals and the local biodiversity along with the possible impact of the proposed project on them. A conservation plan for the endangered species, if any, should also be submitted.

##### Water and wastewater:

1. Fresh water treatment plant should be shown on the sanctioned plan. In the flowsheet of fresh water treatment plant, backwash and regeneration lines are to be shown. Spent brine (used for regeneration of the softener) solution to be routed through the STP and the efficacy of the bio-STP should be examined with the NaCl-load contributed by spent regenerant.
2. Fresh water (and treated water) analysis report including arsenic should be provided and if required, an arsenic removal plant should be arranged with the fresh water treatment plant.
3. Drainage plan and permission to be submitted.
4. Detailed design and working principle of the proposed STP should be submitted. The footprint of such a plant should be shown on the sanctioned plan.
5. Details of the tertiary treatment at the STP to be provided.
6. Since the proposed STP operates under a relatively new technology, efficacy of the STP should be submitted.
7. Expected quality of treated wastewater coming out of the STP should be furnished.
8. The subsurface lithology and design of the bore wells should be submitted. Location and pumping schedule of the borewells should be submitted.
9. A hydrogeological study mentioning the groundwater levels at selected network stations, depth to water level map, water level elevation contour map, and the amount of discharge of groundwater vis-a-vis recharge in the aquifer underlying the project area should be submitted.
10. The impact of the basement on the shallow groundwater flow should also be submitted.
11. Location of borewells outside the project site should be submitted.
12. Impact of pumping of groundwater on the aquifer within 5 km radius of the project site.
13. Flowmeter with totalizer to be provided at all inlet, outlet and recycle lines and the recorded values should be submitted with periodical compliance reports.
14. Regular monitoring and reporting (with periodical compliance reports) of the groundwater level by constructing a piezometer is necessary. The lithology and design of the piezometer should also be submitted.

##### Rainwater harvesting and recharge:



	<p>1. Location of rainwater harvesting tank and recharge pits to be indicated on the sanctioned plan. The design of recharge structures should be submitted.</p> <p><b>Need based activity/social part of EMP:</b></p> <p>1. Need-based EMP as per Office Memorandum of MoEF &amp; CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted.</p> <p>2. Consents from the beneficiaries of the social part of EMP should be furnished.</p> <p><b>Plantation plan/greenbelt/Biodiversity:</b></p> <p>1. Existing trees to be marked in DFO approved plantation plan.</p> <p>2. Species of plants, to be planted on the bio-STP, should be indicated.</p> <p><b>Emission</b></p> <p>1. Height of stacks attached to DG sets should be indicated.</p> <p>While applying for the environmental clearance, the proponent shall upload the EIA/EMP report along with the documents/ sought above. All the documents should be duly signed by the project proponent and the environmental consultant.</p> <p>These ToRs should be considered for the preparation of EIA-EMP report for the proposed construction project in addition to all the relevant information as per the General Structures of EIA given in Appendix III and IIIA in the EIA Notification, 2006.</p> <p>The ToRs prescribed shall be valid for a period of three years for submission of EIA/EMP.</p> <p>The project proponent is requested to submit the final EIA/EMP prepared as per the above mentioned ToRs for further consideration of the proposal for environmental clearance.</p> <p>The Project Proponent and the Consultant should abide by the MoEF Notification dated 03.03.2016 and Office Memorandum dated 30.09.2011 and 05.10.2011 along with other stipulations.</p>
2.	<p>The need based activities plan containing year-wise allocation of funds for each of the activities proposed, specific information related to each activity like name of school/institution, location etc. and name of Govt. bodies/agencies in collaboration with whom each activity would be executed should be submitted with the EIA Report. The need based activity should be completed within a period of first two years of the project life.</p>

### 3.2.5.2. Standard

8(b)	<p><b>Townships/ Area Development Projects / Rehabilitation Centres</b></p>
<p><b>Court Cases</b></p>	
1.	<p>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><b>Disaster Management Plan</b></p>	
1.	<p>Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster. This should cover details of vulnerabilities due to natural and manmade hazards (earthquake, flooding, cyclone, landslides, fire etc.) and details of disaster mitigation efforts for buildings and infrastructure through structural sufficiency and Fire and Life Safety compliance in line with National Building Code NBC, 2016.</p>
<p><b>Drainage</b></p>	

1.	Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project.
<b>Energy Requirements</b>	
1.	DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment.
1.	Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
1.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.
<b>Environmental Monitoring and Management</b>	
1.	Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
1.	Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
1.	Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
1.	Possible carbon footprint contribution from each activities and mitigation measures proposed shall be included as part of Environment Management Plan.
1.	Examine baseline environmental quality along with projected incremental load due to the project.
<b>Forest</b>	
1.	Submit the details of the trees to be felled for the project, if any .
1.	Submit the present land use and permission required for any conversion such as forest, agriculture etc.
<b>Land acquisition and R&amp;R</b>	
1.	Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/villages and present status of such activities.
<b>Land Environment</b>	
1.	Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
<b>Miscellaneous</b>	
1.	Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website <a href="http://moef.nic.in/Manual/Townships">http://moef.nic.in/Manual/Townships</a> .
<b>Project Details</b>	
1.	Need and benefits of the project.

1.	Submit data for built-up area for each building, the use and occupancy classification in line with NBC 2016 also to be indicated [for differential functional requirements].
1.	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
<b>Road and Traffic</b>	
1.	A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
1.	Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
1.	Examine the details of transport of materials for construction which should include source and availability.
<b>Waste Management</b>	
1.	Examine details of solid waste generation treatment and its disposal.
1.	Construction & Demolition Waste Management Plan shall be prepared as part of EMP providing details of demolition activities involved along with quantification and disposal mechanism.
<b>Water Environment</b>	
1.	Ground water classification as per the Central Ground Water Authority.
<b>Water Management</b>	
1.	Maximize recycling of water and utilization of rain water. Examine details.
1.	Examine soil characteristics and depth of ground water table for rainwater harvesting
1.	Permission from CGWA for abstraction of groundwater, if any, including dewatering during basement excavation.
1.	Rain water harvesting proposals should be made with due safeguards for ground water quality.
1.	Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.

### 3.3. Agenda Item No 3:

#### 3.3.1. Details of the proposal

<b>Environmental Clearance of existing Rolling Mill for production of 1500 Ton per month Re-rolled products (Flat s, Rounds, Angles, Channels etc.) at Sankrail Industrial Park, Vill - Bhagabatipur, P.S - Sankrail, Howrah - 7113 02 by M/s. Giriraj Ispat Pvt. Ltd. (Unit - 2) by GIRIRAJ ISPAT PRIVATE LIMITED located at HOWRAH, WE ST BENGAL</b>			
<b>Proposal For</b>		Fresh ToR	
<b>Proposal No</b>	<b>File No</b>	<b>Submission Date</b>	<b>Activity (Schedule Item)</b>

SIA/WB/IND1/458025/2024	2N-37/2024(E)	11/01/2024	Metallurgical Industries (ferrous and non ferrous) (3(a))
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### 3.3.2. Deliberations by the committee in previous meetings

<p><b>Date of SEAC 1 :</b>31/01/2024</p> <p><b>Deliberations of SEAC 1 :</b></p> <ul style="list-style-type: none"> <li>Based on the application made, documents uploaded / submitted, and the presentation made by the PP/Consultant, the SEAC made the following observations:-</li> </ul> <p><b>Mandatory documents</b></p> <ol style="list-style-type: none"> <li>The PP should submit Certified Compliance Report (CCR) from the MoEF&amp;CC as directed in the Notification issued vide F No. IA3-22/10/2022-IA.III[E 177258] dated 08.06.2022.</li> <li>Land documents for the entire project area of 2.19 Acre (8879.39 sqm). Land conversion and mutation in the name of the project proponent should be provided.</li> <li>Mouza map along land summary schedule for the project site should be submitted.</li> </ol> <p><b>Greenbelt and plantation</b></p> <ol style="list-style-type: none"> <li>Full details of compensatory plantation area including status of land conversion and mutation in the name of the PP should be submitted.</li> </ol> <p><b>Solid waste</b></p> <ol style="list-style-type: none"> <li>Details of tar handling and its management plan generated from coal gasifier should be submitted.</li> </ol> <p><b>Need based EMP</b></p> <ol style="list-style-type: none"> <li>EMP as per Office Memorandum of MoEF &amp; CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consents from the beneficiaries of the social part of EMP should be furnished. Any other local need should be identified.</li> </ol> <p><b>Water and waste water</b></p> <ol style="list-style-type: none"> <li>Permission from the Competent Authority for water requirement of 13.32 KLD.</li> </ol> <p><b>Recommendation :</b> SEAC, taking into account the salient features of the proposed project, recommended that Terms of Reference may be issued for EIA study of the proposed project. In addition to the standard ToR the above additional terms/ conditions may be made a part of the ToR. Status of the compliance of the conditions stipulated may be furnished along with the application for Environmental Clearance application. All the documents should be duly signed both by the project proponent and environmental the consultant.</p>
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### 3.3.3. Deliberations by the SEIAA in current meetings

<p>SEIAA considered the recommendation of SEAC and accepted the same. SEIAA approved the proposal for ToR with the additional condition that the need based activities plan containing year-wise allocation of funds for each of the activities proposed, specific information related to each activity like name of school/institution, location etc. and name of Govt. bodies/agencies in collaboration with whom each activity would be executed should be submitted with the EIA Report. The need based activity should be completed within a period of first two years of the project life.</p>
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### 3.3.4. Recommendation of SEIAA

Approved
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### 3.3.5. Details of Terms of Reference

#### 3.3.5.1. Specific

**Additional Terms of Reference imposed by SEAC –**

1.	<p><b>Mandatory documents</b></p> <ol style="list-style-type: none"><li>1. The PP should submit Certified Compliance Report (CCR) from the MoEF&amp;CC as directed in the Notification issued vide F No. IA3-22/10/2022-IA.III[E 177258] dated 08.06.2022.</li><li>2. Land documents for the entire project area of 2.19 Acre (8879.39 sqm). Land conversion and mutation in the name of the project proponent should be provided.</li><li>3. Mouza map along land summary schedule for the project site should be submitted.</li></ol> <p><b>Greenbelt and plantation</b></p> <ol style="list-style-type: none"><li>4. Full details of compensatory plantation area including status of land conversion and mutation in the name of the PP should be submitted.</li></ol> <p><b>Solid waste</b></p> <ol style="list-style-type: none"><li>5. Details of tar handling and its management plan generated from coal gasifier should be submitted.</li></ol> <p><b>Need based EMP</b></p> <ol style="list-style-type: none"><li>6. EMP as per Office Memorandum of MoEF &amp; CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consents from the beneficiaries of the social part of EMP should be furnished. Any other local need should be identified.</li></ol> <p><b>Water and waste water</b></p> <ol style="list-style-type: none"><li>7. Permission from the Competent Authority for water requirement of 13.32 KLD.</li></ol> <p>The proponent, – while applying for environmental clearance, shall upload in the PARIVESH portal, the EIA/EMP report along with the documents/ sought above.</p>
2.	<p>The need based activities plan containing year-wise allocation of funds for each of the activities proposed, specific information related to each activity like name of school/institution, location etc and name of Govt. bodies/agencies in collaboration with whom each activity would be executed should be submitted with the EIA Report. The need based activity should be completed within a period of two years.</p>

**SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON-FERROUS)**

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

### 3.3.5.2. Standard

3(a)	<b>Metallurgical Industries (ferrous and non ferrous)</b>																										
<b>Additional Studies</b>																											
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.	Emergency response and preparedness plan																										
1.	<p>Risk assessment</p> <ul style="list-style-type: none"> <li>• Methodology</li> <li>• Hazard identification</li> <li>• Frequency analysis</li> <li>• Consequence analysis</li> <li>• Risk assessment outcome</li> </ul>																										
1.	<p>Summary of issues raised during public consultation along with action plan to address the same as per MoEF&amp;CC O.M. dated 30/09/2020</p> <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														
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																						
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.	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.			
<b>Analysis of Alternatives (Technology &amp; Site)</b>				
1.	Site alternative			
1.	No project scenario			
1.	Conclusion			
1.	Technical and social concerns			
<b>Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)</b>				
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.	Identification of potential impacts in the form of a matrix for the construction and operation phase for all the environment components			
	<b>Activity</b>	<b>Environment</b>	<b>Ecological</b>	<b>Socio-economic</b>
1.	Construction phase			
	Operation phase			
1.	Impact on occupational health and safety (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 terrestrial and aquatic habitat (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 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 soil 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 ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact) a. Construction phase b. Operation phase			
<b>Description of the Environment</b>				
1.	Study period			
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.			
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			
Approach and methodology for data collection as furnished below				
	<b>Attributes</b>	<b>Sampling</b>		<b>Remarks</b>
		Network	Frequency	
	Air Environment			
	Micro-Meteorological <ul style="list-style-type: none"> <li>• Wind speed (Hourly)</li> <li>• Wind direction</li> <li>• Dry bulb temperature</li> <li>• Wet bulb temperature</li> <li>• Relative humidity</li> <li>• Rainfall</li> <li>• Solar radiation</li> <li>• Cloud cover</li> <li>• Environmental</li> <li>• Lapse Rate</li> </ul>	Minimum 1 site in the project impact area	hourly continuous	IS 5182 Part 1-20 <ul style="list-style-type: none"> <li>• Site specific primary data is essential</li> <li>• Secondary data from IMD, New Delhi</li> <li>• CPCB guidelines to be considered.</li> </ul>
1.	Pollutants <ul style="list-style-type: none"> <li>• PM10</li> <li>• SO2</li> <li>• NOx</li> <li>• CO</li> <li>• HC</li> <li>• Other parameters relevant to the project and topography of the area</li> </ul>	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	<ul style="list-style-type: none"> <li>• Sampling as per CPCB guidelines</li> <li>• Collection of AAQ data (except in monsoon season)</li> <li>• Locations of various stations for different parameters should be related to the characteristic properties of the parameters.</li> <li>• 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</li> </ul>



			<p>zone and sensitive receptors including reserved forests,</p> <ul style="list-style-type: none"> <li>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.</li> </ul>
Noise			
Hourly equivalent noise levels	At least 8-12 locations	s per CPCB norms	
Water			
<p>Parameters for water quality</p> <ul style="list-style-type: none"> <li>pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity</li> <li>Total nitrogen, total phosphorus, DO, BOD, COD, Phenol</li> <li>Heavy metals</li> <li>Total coliforms, faecal coliforms</li> <li>Phyto plankton</li> <li>Zoo plankton</li> </ul>	<p>Samples for water quality should be collected and analyzed as per:</p> <ul style="list-style-type: none"> <li>IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents</li> <li>Standard methods for examination of water and wastewater analysis published by American Public Health Association</li> </ul>		
<p>For River Bodies</p> <ul style="list-style-type: none"> <li>Total Carbon</li> <li>pH</li> <li>Dissolved Oxygen</li> <li>Biological Oxygen Demand</li> <li>Free NH4</li> <li>Boron</li> <li>Sodium Absorption Ratio</li> <li>Electrical Conductivity</li> </ul>	<p>Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies</p>	<ul style="list-style-type: none"> <li>Yield of water sources to be measured during critical season</li> <li>Standard methodology for collection of surface water (BIS standards)</li> </ul>	
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"> <li>• Frequency of vehicles for transportation of materials</li> <li>• Additional traffic due to proposed project</li> </ul>	Land Environment
Soil <ul style="list-style-type: none"> <li>• Particle size distribution</li> <li>• Texture</li> <li>• pH</li> <li>• Electrical conductivity</li> <li>• Cation exchange capacity</li> <li>• Alkali metals</li> <li>• Sodium Absorption Ratio (SAR)</li> <li>• Permeability</li> <li>• Water holding capacity</li> <li>• Porosity</li> </ul>	Soil samples be collected as per BIS specifications
Land use/Landscape <ul style="list-style-type: none"> <li>• Location code</li> <li>• Total project area</li> <li>• Topography</li> <li>• Drainage (natural)</li> <li>• Cultivated, forest, plantations, water bodies, roads and settlements</li> </ul>	
Biological Environment	
1. Aquatic <ul style="list-style-type: none"> <li>• Primary productivity</li> <li>• Aquatic weeds</li> <li>• Enumeration of phyto plankton, zoo plankton and benthos</li> <li>• Fisheries</li> <li>• Diversity indices</li> <li>• Trophic levels</li> <li>• Rare and endangered species</li> <li>• Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ)</li> </ul> 2. Terrestrial	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site.</li> <li>• For forest studies, direction of wind should be considered while selecting forests.</li> <li>• Secondary data to collect from Government offices, NGOs, published literature.</li> </ul>

<ul style="list-style-type: none"> <li>• Vegetation-species list, economic importance, forest produce, medicinal value</li> <li>• Importance value index (IVI) of trees</li> <li>• Fauna</li> <li>• Avi fauna</li> <li>• Rare and endangered species</li> <li>• Sanctuaries / National park / Biosphere reserve</li> <li>• Migratory routes</li> </ul>	
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socio-economic

<p>Demographic structure</p> <ul style="list-style-type: none"> <li>• Infrastructure resource base</li> <li>• Economic resource base</li> <li>• Health status: Morbidity pattern</li> <li>• Cultural and aesthetic attributes.</li> <li>• Education</li> </ul>	<p>Socio-economic survey is based on proportionate, stratified and random sampling method.</p> <ul style="list-style-type: none"> <li>• Primary data collection through questionnaire</li> <li>• Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. agencies</li> </ul>
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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"> <li>• Wind speed (Hourly)</li> <li>• Wind direction</li> <li>• Dry bulb temperature</li> <li>• Wet bulb temperature</li> <li>• Relative humidity</li> <li>• Rainfall</li> <li>• Solar radiation</li> <li>• Cloud cover</li> <li>• Environmental</li> <li>• Lapse Rate</li> </ul>	<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"> <li>• Site specific primary data is essential</li> <li>• Secondary data from IMD, New Delhi</li> <li>• CPCB guidelines to be considered.</li> </ul>
<p>Pollutants</p> <ul style="list-style-type: none"> <li>• PM10</li> <li>• SO2</li> <li>• NOx</li> <li>• CO</li> <li>• HC</li> <li>• Other parameters relevant to</li> </ul>	<p>At least 8-12 locations</p>	<p>As per National Ambient Air Quality Standards, CPCB Notification.</p>	<ul style="list-style-type: none"> <li>• Sampling as per CPCB guidelines</li> <li>• Collection of AAQ data (except in monsoon season)</li> <li>• Locations of various stations for different</li> </ul>

<p>the project and topography of the area</p>			<p>parameters should be related to the characteristic properties of the parameters.</p> <ul style="list-style-type: none"> <li>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,</li> <li>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.</li> </ul>
<p>Noise</p>			
<p>Hourly equivalent noise levels</p>	<p>At least 8-12 locations</p>	<p>s per CPCB norms</p>	
<p>Water</p>			
<p>Parameters for water quality</p> <ul style="list-style-type: none"> <li>pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity</li> <li>Total nitrogen, total phosphorus, DO, BOD, COD, Phenol</li> <li>Heavy metals</li> <li>Total coliforms, faecal coliforms</li> <li>Phyto plankton</li> <li>Zoo plankton</li> </ul>	<p>Samples for water quality should be collected and analyzed as per:</p> <ul style="list-style-type: none"> <li>IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents</li> <li>Standard methods for examination of water and wastewater analysis published by American Public Health Association</li> </ul>		

<p>For River Bodies</p> <ul style="list-style-type: none"> <li>• Total Carbon</li> <li>• pH</li> <li>• Dissolved Oxygen</li> <li>• Biological Oxygen Demand</li> <li>• Free NH4</li> <li>• Boron</li> <li>• Sodium Absorption Ratio</li> <li>• Electrical Conductivity</li> </ul>	<p>Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies</p>	<ul style="list-style-type: none"> <li>• Yield of water sources to be measured during critical season</li> <li>• Standard methodology for collection of surface water (BIS standards)</li> </ul>
<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"> <li>• Frequency of vehicles for transportation of materials</li> <li>• Additional traffic due to proposed project</li> </ul>	<p>Land Environment</p>	
<p>Soil</p> <ul style="list-style-type: none"> <li>• Particle size distribution</li> <li>• Texture</li> <li>• pH</li> <li>• Electrical conductivity</li> <li>• Cation exchange capacity</li> <li>• Alkali metals</li> <li>• Sodium Absorption Ratio (SAR)</li> <li>• Permeability</li> <li>• Water holding capacity</li> <li>• Porosity</li> </ul>	<p>Soil samples be collected as per BIS specifications</p>	
<p>Land use/Landscape</p> <ul style="list-style-type: none"> <li>• Location code</li> <li>• Total project area</li> <li>• Topography</li> <li>• Drainage (natural)</li> <li>• Cultivated, forest, plantations, water bodies, roads and settlements</li> </ul>		
<p>Biological Environment</p>		
<p>1. Aquatic</p> <ul style="list-style-type: none"> <li>• Primary productivity</li> <li>• Aquatic weeds</li> </ul>	<ul style="list-style-type: none"> <li>• 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</li> </ul>	

<ul style="list-style-type: none"> <li>• Enumeration of phyto plankton, zoo plankton and benthos</li> <li>• Fisheries Diversity indices</li> <li>• Trophic levels</li> <li>• Rare and endangered species</li> <li>• Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ)</li> </ul> <p>2. Terrestrial</p> <ul style="list-style-type: none"> <li>• Vegetation-species list, economic importance, forest produce, medicinal value</li> <li>• Importance value index (IVI) of trees</li> <li>• Fauna</li> <li>• Avi fauna</li> <li>• Rare and endangered species</li> <li>• Sanctuaries / National park / Biosphere reserve</li> <li>• Migratory routes</li> </ul>	<p>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.</p> <ul style="list-style-type: none"> <li>• Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site.</li> <li>• For forest studies, direction of wind should be considered while selecting forests.</li> <li>• Secondary data to collect from Government offices, NGOs, published literature.</li> </ul>
socio-economic	
<p>Demographic structure</p> <ul style="list-style-type: none"> <li>• Infrastructure resource base</li> <li>• Economic resource base</li> <li>• Health status: Morbidity pattern</li> <li>• Cultural and aesthetic attributes.</li> <li>• Education</li> </ul>	<p>Socio-economic survey is based on proportionate, stratified and random sampling method.</p> <ul style="list-style-type: none"> <li>• Primary data collection through questionnaire</li> <li>• Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. agencies</li> </ul>

**Environmental Monitoring Program**

Action plan for post-project environment monitoring matrix:						
<b>Activity</b>	<b>Aspect</b>	<b>Monitoring Parameter</b>	<b>Location</b>	<b>Frequency</b>	<b>Responsibility</b>	
1. Construction phase						
Operation phase						
1.	Corporate Environment Policy					

	<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.	Performance monitoring schedule for all pollution control devices shall be furnished.
1.	Details of the Environment Management Cell
<b>Environment Cost Benefit Analysis</b>	
1.	Net present value
1.	Internal rate of return
1.	Benefit cost ratio
1.	Cost effectiveness analysis
<b>Environment Management Plan (Construction and Operation phase)</b>	
1.	Action plan for hazardous waste management
1.	Action plan for fugitive emission control in the plant premises shall be provided.
1.	Action plan to limit the dust emission from all the stacks below 30 mg/Nm <sup>3</sup> shall be furnished.
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.	An Action Plan for improving the house-keeping activities in the raw material handling area need to be submitted
1.	Explore possibilities for recycling and reusing of treated water in the unit to reduce the freshwater demand and waste disposal.
1.	Total capital cost and recurring cost/annum for environment pollution control measures shall be included.
1.	Wildlife conservation plan (In case of presence of schedule I species)
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.	Plan for maximum usage of waste water/treated water in the Unit
1.	Rain water harvesting plan

1.	Action plan for construction and demolition waste management.
1.	Action plan for plastic waste management, considering the Plastic Waste Management Rules 2016.
1.	Action plan for e-waste management.
1.	Action plan for solid waste management
<b>Executive Summary</b>	
1.	Socio-economic management plan
1.	Key pollution concerns
1.	Operational activity
1.	Resource requirements (Land; water; fuel; manpower)
1.	Location and accessibility
1.	Name of the project along with applicable schedule and category as per EIA, 2006.
1.	Point wise compliance to the ToR issued by MoEF&CC.
1.	Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.
1.	Project cost and EMP implementation budget.
1.	Soil quality
1.	Ground water quality
1.	Surface water quality
1.	Traffic study
1.	Ambient Noise quality
1.	Effluent management plan
1.	Solid and hazardous waste management plan
1.	Air quality management plan
1.	Action plan to address the issues raised during public consultation as per MoEF&CC O.M. dated 30/09/2020
1.	Public consultation
1.	Risk assessment
1.	Social Parameters
1.	Green Belt



1.	Emission and discharge from the plant
1.	Noise quality management plan
1.	Ambient air, noise, water and soil quality
1.	null
1.	Impact on socio-economic environment
1.	Impact on terrestrial and aquatic habitat
1.	Impact on ground water resource and quality
1.	Impact on surface water resource and quality
1.	Impact on road and traffic
1.	Impact on ambient noise quality
1.	Impact on ambient air quality
1.	Socio-economic environment
1.	Land use
1.	Biological Environment
1.	Storm water management plan
1.	Occupational health and safety management plan
1.	Green belt development plan
1.	Ambient air quality
<b>Introduction</b>	
1.	Purpose of the EIA study
1.	Scope of the EIA study
1.	Background about the project
1.	Need of the project
<b>Preliminary requirements</b>	
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.

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.
<b>Project Benefits</b>	
1.	Other tangible benefits
1.	Environment benefits
1.	Social infrastructure
1.	Employment and business opportunity
<b>Project description</b>	
1.	Man-power requirement.
1.	Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
1.	Water balance diagram
1.	Total requirement of surface/ ground water and power with their respective sources, status of approval.
1.	Consolidated materials and energy balance for the project.
1.	Manufacturing process details along with process flow diagram of proposed units.
1.	Other than raw materials, other chemicals and materials required with quantities and storage capacities.
1.	List of raw materials required and their source along with mode of transportation.
1.	Site preparatory activities.
1.	If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
1.	Status of Forest Clearance for the use of forest land 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.	A detailed report covering all aspects of Fire Safety Management and Fire Emergency Plan shall be submitted.
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.	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.	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.	Type of land, land use of the project site needs to be submitted.
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.	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 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.	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.	Environment settings of the site and its surrounding along with map.
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.	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.	Site accessibility
1.	Location of the project site covering village, Taluka/Tehsil, District and State.
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.
1.	In case of expansion projects, project proponent shall submit structural stability certificate showing whether existing structure withstand for proposed expansion activity.

1.	Cost of project and scheduled time of completion.
1.	Products with capacities in Tons per Annum for the proposed project.
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.	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.	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.
<b>null</b>	
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.	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 <sup>3</sup> shall be furnished.
1.	Action plan for 100 % solid waste utilization shall be submitted.
1.	PM (PM <sub>10</sub> and P <sub>2.5</sub> ) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM <sub>10</sub> to be carried over.
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.

#### 4. Any Other Item(s)

##### 4.1.1. Details of the proposal

<b>MISCELLANEOUS 1. Revised DSR of Purulia district. located at N/A,N/A,N/A</b>		
<b>Proposal For</b>	N/A	
<b>Proposal No</b>	<b>File No</b>	
N/A	N/A	

##### 4.1.2. Project Salient Features

null
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##### 4.1.3. Deliberations by the EAC in current meetings

<b>Revised DSR of Purulia district is approved.</b>
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##### 4.1.4. Recommendation of EAC

Approved
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#### 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*****@gmail.com	
3	Dr Nilangshu Bhusan Basu	SEIAA Member	nb*****@gmail.com	

Date: 14/03/2024