Item No.203.06: Application for issuance of TORs for proposed Steel manufacturing unit namely "M/s SG Metals and Steels India Pvt. Ltd." at Village Shahpur, Khanna-Amloh Road, Tehsil Amloh, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab (Proposal No. SIA/PB/IND/63190/2021).

The project proponent has applied for issuance of TOR of M/s SG Metals and Steels India Pvt. Ltd. for proposed Steel manufacturing unit for the production capacity of 1,55,000 TPA Billets OR 1,50,000 TPA Strips/Bars using one Induction Furnace of capacity 25 TPH & rolling mill at Village Shahpur, Khanna-Amloh Road, Tehsil Amloh, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab. Project is covered under Schedule 3(a) & Category 'B1' as per EIA Notification, 2006. The Project cost is 26.4297 Cr.

The project proponent had submitted the Form I, Pre-feasibility report and other additional documents on online portal. He had also deposited the requisite fees amounting Rs. 66,050/- vide UTR No. N126211496140255 dated 06.05.2021 and Rs. 25/- vide UTR No. 114414745621 dated 24.05.2021. The Project Proponent has deposited 25% of the total fee prescribed for the Environmental Clearance being at ToR stage and the remaining 75% of the fee i.e. Rs. 1,98,223/- will be paid at the time of applying for Environmental Clearance. The Project Proponent was raised EDS on 19.05.2021 to which the Project Proponent submitted the reply.

The project proponent submitted an undertaking that the project site does not cover under the Forest Conservation Act, 1980 or Punjab Land Preservation Act, 1900, Wildlife area under Wildlife (Protection) Act, 1972. Further no litigation against the project is pending in any Court of Law and no construction activity relating to the project has been started. The project site neither fall in Eco-sensitive Zone nor in the boundary of critical polluted area. The project does not attract the generation condition and specific condition.

The project proponent during the presentation to the Committee be asked to present the applicability of General Condition, suitability of site, land details etc.

1.0 Deliberations during 201st meeting of SEAC held on 02.06.2021

The meeting was attended by the following:

1. Ms. Priyanka Madaan, EIA Coordinator, M/s Eco Laboratories Pvt Ltd.
2. Hansraj Garg, Director.

SEAC allowed the Environmental Consultant of the Project Proponent to present salient features of the project which he presented as under:

Sr.no.	Item	Details
1.	Name and Location of the project	Proposed steel manufacturing unit namely "SG Metals and Steels India Pvt. Ltd." at Village Shahpur, Khanna-Amloh Road, Tehsil Amloh, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab.
2.	Project/ activity covered under item of scheduled to the EIA Notification, 14.09.2006	The project falls under S. No. 3(a): Metallurgical Industries (ferrous & non ferrous).
3.	Whether the project is in critical polluted area or	No
4.	If the project involves diversion of forest land. If yes, a) Extent of the forest land. b) Status of the forest clearance.	No
5.	Is the project covered under PLPA, 1900, if No but located near to PLPA area then the project proponent is required to submit NOC from the concerned DFO to the effect that project area does not fall under the provision of PLPA Act, 1900.	Project is not covered under PLPA, 1900 as well as not located near to PLPA area.
6.	If the project falls within 10 km of eco-sensitive area/ National park/ Wild Life Sanctuary. If yes, a. Name of eco-sensitive area/ National park/ Wild Life Sanctuary and distance from the project site.	No

<table>
<tr><td></td><td>b. Status of clearance from National Board for Wild Life (NBWL).</td><td></td></tr>
<tr><td>7.</td><td>Classification/ Land use pattern as per Master Plan</td><td>The project falls in Industrial zone as per the Master plan of Mandi Gobindgarh, Punjab.</td></tr>
<tr><td>8.</td><td>Cost of the project</td><td>Rs. 26.42 Crores.</td></tr>
<tr><td>9.</td><td>Total Plot area, Built-up area and Green area</td><td>The details are given below:
<table>
<tr><th>S. No.</th><th>Description</th><th>Area (in sq.m.)</th></tr>
<tr><td>1.</td><td>Project land area</td><td>16717.65</td></tr>
<tr><td>2.</td><td>Proposed covered area</td><td>8550.64</td></tr>
<tr><td>3.</td><td>Green area</td><td>1338.28</td></tr>
<tr><td>4.</td><td>Passage area</td><td>4646.84</td></tr>
<tr><td>5.</td><td>Other areas</td><td>2181.87</td></tr>
</table></td></tr>
<tr><td>10.</td><td>Water Requirements & source in Construction Phase</td><td>During construction period, a water demand of 5 KLD may be there. This will include domestic demand for 50 workers during peak period @ 3 KLD.</td></tr>
<tr><td>11.</td><td>Treatment & Disposal arrangements of wastewater in Construction Phase</td><td>Septic Tank</td></tr>
</table>

The Project Proponent informed the Committee that it has not carried out any activity related to establishment of the project SEAC raised following observation to the Project Proponent:

Sr. No.	Observations	Reply
1.	As per the proposal, the Project Proponent has earmarked 1338.28 sqm. for green area in the total project area of 16717.65 sqm. which comes out to be around 8% only. However, as per the conditions of MoEF, the project proponent has to reserve 33% of the project area as green area.	The Project Proponent submitted that it has acquired 4.15 acres of land on lease basis from Sh. Ganesh Edibles Pvt. Ltd. for a lease period of 31 years. Out of 4.15 acres, green area will be developed on 1338.28 Sqm (8% of the total project area). It was further submitted that an Additional land of 18 Kanals 18 Marlas (around 2.3 acre) has been purchased in front of industry at a

		distance of approximately 50 meters from the project site to meet with the requirement of 33% of the green area.

SEAC observed that the Project Proponent has not reserved 33% of the project area as the green area within the premises of the proposed project and the condition of development of green area equal to 33% of the project area cannot be relaxed in case of new projects. It is possible at this stage for the Project Proponent to acquire adequate land at some other location keeping in mind the requirement of green area. Further, allowing such projects will set a wrong precedent for other projects, not meeting with the green area requirement, for grant of Environmental Clearance.

After detailed deliberations, SEAC decided to forward the case to SEIAA with the recommendation to deny the issuance of ToR for proposed Steel manufacturing unit namely "M/s SG Metals and Steels India Pvt. Ltd." at Village Shahpur, Khanna-Amloh Road, Tehsil Amloh, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab.

2.0 Deliberations during 184th meeting of SEIAA held on 28.06.2021

The case was considered by SEIAA in its 184th meeting held on 28.06.2021 which was also attended by the following through Video Conference:

1. Sh. Hansraj Garg, Director, and Sh. Rashwinder Dhillon on behalf of the promoter company
2. Dr. Sandeep Garg and Ms. Priyanka Madan, EIA Coordinator from M/s Eco Laboratories Pvt Ltd.

During the meeting, SEIAA was apprised that the promoter company has submitted a fresh representation through email dated 22.06.2021 with respect to the provision of green area in the proposed industry. In the said representation, it was informed that 15 MW captive power plant based on 100 % paddy straw as a fuel will be set up out of which 10 MW power is proposed to be used in the proposed project i.e. M/s SG Metals Steels India Pvt. Ltd. Project proponent stated that this was necessitated because PSPSCL did not agree to purchase electricity generated by the paddy straw based captive power plant @ Rs. 7.64 per KWH fixed by Punjab State Electricity Regulatory Commission.

Project proponent further submitted that the 15 MW power plant will utilize two lakh tonnes of paddy straw from almost one lakh acres of 150 villages at an investment of Rs. 100 Crores. This will considerably alleviate the problem of pollution caused due to burning of paddy straw and help in reduction in CO2 emission to the extent of 75,000 tonnes per annum. A sum of Rs. 25 crores per annum would also be paid to the farmers for supplying

paddy straw. This project has the potential to be replicated on a large scale and can help Punjab in reducing pollution caused by burning of paddy straw.

Project proponent has further proposed to increase the green area from 8 to 20 % within the project site and the remaining green area shall be provided at a distance of 50 m from the boundary of the proposed project. The representation submitted by the promoter company vide letter dated 22.06.2021 is attached as Annexure-1 of the proceedings.

After detailed deliberations, SEIAA decided to remand the case to SEAC for examination of the fresh representation submitted by the promoter company vide letter dated 22.06.2021 and sending its recommendations in the matter.

3.0 Deliberations during 203rd meeting of SEAC held on 05.07.2021

The meeting was attended by the following:

1. Sh. Sandeep Garg, EIA & Ms. Priyanka Madaan, EIA Coordinator, M/s Eco Laboratories Pvt Ltd.
2. Sh. Hansraj Garg, Director.

SEAC examined the proposal in view of representation given by the promoter company to SEIAA vide letter dated 22.06.21. It was observed that M/s. Shri Ganesh Edibles Pvt. Ltd. village Shahpur, Tehsil Amloah, Distt. Fatehgarh Sahib has set up a 2.92 MW captive power plant based on 100% paddy straw as fuel. This power plant is running successfully since 2014 and the company made a payment of Rs. 62 crores to the farmers over a period of 7 years for purchase of paddy straw. The company signed an Implementation Agreement (IA) for 12.5 MW cogeneration power plant based on paddy straw with Punjab Energy Development Agency @ Rs. 7.64/ KWh. However, the Punjab State Power Corporation Limited (PSPCL) refused to sign the Power Purchase Agreement (PPA). In the meantime, the company placed order for paddy straw based Biomass Power Plant with ISGEC Heavy Engineering Limited (for Boiler) and with M/s. Siemens Limited (for turbine).

Further, as the PSPCL was not inclined to sign the PPA, the company has left with no other option accept to plan a new industry for utilizing the surplus power. Thus, the steel plant under a new subsidiary M/s. SG Metals & Steels India Pvt. Ltd., was planned to utilize surplus power from M/s. Shree Ganesh Edibles Pvt. Ltd. Now the company is proposing to set up 15 MW captive power plant based on 100% paddy straw as fuel. Out of 15 MW power, around 5 MW power is being used in M/s. Shree Ganesh Edibles Pvt. Ltd. and the remaining 10 MW power is proposed to be used in M/s. SG Metals & Steels India Pvt. Ltd.

The 15 MW power plant will consume 2 lakhs tons of paddy straw covering almost one lakh acres of approximately 150 villages at an investment of Rs. 100 Crores. The plant would also help in reduction of CO_2 emissions to the extend of 75000 tons per annum. The Plant would also ensure a payment of Rs. 25 Crores per annum to the farmers for supplying of paddy straw. This will address the problem of paddy straw in the district besides providing direct employment to 100 persons and indirect employment to 5000 persons in the State.

Further, the Project Proponent informed that they have modified the layout plan by converting additional storage area into green area thereby raising the green area from 8 % to 20.22% within the project site. Further, to meet the requirement of 33% green area, an additional land of 2.3 acres has already been purchased at a distance of approximately 50 meters from the wall of the proposed project.

After examining the proposal, SEAC observed that the proposed project would help to address the problem of paddy straw burning in the State. Further, the said unit would also serve as a model unit for the State for running 15 MW power plant based on 100% paddy straw by consuming 2 lakhs Tons of paddy straw from approximately 150 villages.

Sh. Sunil Mittal, Member SEAC also supported the proposal and informed that some other projects based on paddy straw are also running successfully in and around Bathinda District. Some of the members raised concern about the treatment & disposal of ash being generated from the boiler and asked the project proponent to submit complete proposal for the management of ash at the time of obtaining environmental clearance.

The Environmental Consultant of the Project Proponent further apprised the SEAC that a different Project namely M/s Punjab Steel Forging & Agro Industries falls at a distance of about 4Km from the Project site. The baseline data of the same was collected for a period October to December 2018. He further apprised that additional study of one month was also carried out in May, 2021. He requested the SEAC to allow him to utilize this baseline data for preparation of EIA report. SEAC agreed to the same.

After detailed deliberations, SEAC decided to forward the case of SEIAA with the recommendation to issue Terms of Reference for proposed Steel manufacturing unit namely "M/s SG Metals and Steels India Pvt. Ltd." at Village Shahpur, Khanna-Amloh Road, Tehsil Amloh, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab, **as a special case** with additional ToR as under:

STANDARD TERMS OF REFERENCE

1) Executive Summary

Report in about 8-10 pages incorporating the following:

(i) Project name and location (Village, Distt., State, Industrial Estate (if applicable)

(ii) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.

(iii) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)

(iv) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.

(v) Measures for mitigating the impact on the environment and mode of discharge or disposal.

(vi) Capital cost of the project, estimated time of completion

(vii) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of is acquisition, nearby (in 2-3 km.) water body, population, within 10 km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)

(viii) Baseline environmental data - air quality, surface and groundwater quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.

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

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

(xi) Emergency preparedness plan in case of natural or in plant emergencies

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

(xiii) CSR/CER plan with proposed expenditure.

(xiv) Occupational Health Measures

(xv) Post Project monitoring plan

(xvi) Synopsis of the project (as available on web site i.e. www.pbdecc.gov.in)

2) Introduction

(i) Details of the EIA Consultant including NABET accreditation

(ii) Information about the project proponent

(iii) Importance and benefits of the project

3) Project Description

(i) Cost of project and time of completion.

(ii) Products with capacities for the proposed project.

(iii) If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.

(iv) List of raw materials required and their source along with mode of transportation.

(v) Other chemicals and materials required with quantities and storage capacities.

(vi) Details of Emission, effluents, hazardous waste generation and their management.

(vii) Requirement of water (breakup for induction and rolling mill), power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).

(viii) Process description along with major equipment and machineries, process flow sheet (quantitative) from raw material to products to be provided

(ix) Hazard identification and details of proposed safety systems.

(x) In case of Expansion/modernization proposals:

a) Status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.

b) In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006)

obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Site Details

(i) Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered. Copy of Master Plan indicating a land use pattern of the site is in conformity of proposals of Master Plan shall be attached with EIA report.

(ii) A top sheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)

(iii) Details w.r.t. option analysis for selection of site.

(iv) Co-ordinates (lat-long) of all four corners of the site.

(v) Google map-Earth downloaded of the project site

(vi) Layout maps indicating existing unit as well as proposed unit indicating storage area of raw material, finished products, greenbelt area with marking of tree, Location of STP/ETP, Solid waste storage area, Parking space, Firefighting equipment layout, First aid room, Location of Tube wells, DG Sets & Transformers and any other utilities

(vii) If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

(viii) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

(ix) Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc. shall be included. (not required for industrial area)

(x) A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.

(xi) Geological features and Geo-hydrological status of the study area shall be included.

(xii) Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past

30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

(xiii) Status of acquisition of land. lf acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

(xiv) R&R details in respect of land in line with state Government policy

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

(i) Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).

(ii) Land use map based on High resolution satellite imagery (OPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

(iii) Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

(iv) The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

(v) Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

(vi) Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6) Environmental Status

(i) Determination of atmospheric inversion level at the project site and site specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

(ii) AAQ data (except monsoon) at 8 locations for PM 10, PM2.5, S02, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors including reserved forests.

(iii) Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

(iv) Surface water quality of nearby River (100m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF& CC guidelines.

(v) Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF& CC.

(vi) Groundwater monitoring at minimum at 8 locations shall be included.

(vii) Noise levels monitoring at 8 locations within the study area.

(viii) Soil Characteristic as per CPCB guidelines.

(ix) Traffic feasibility / serviceability study for at least 5 days based on Indian Standard Codes. Further it shall also include the details of cross section of the road on which industry is located, vehicles movement w.r.t. the industry, traffic load of other vehicles on the road incorporating the haulage time for the vehicles for loading/unloading within the premises and parking requirement to avoid the traffic congestions on the link and adjoining roads. Traffic study shall be conducted considering the traffic of the industries located in the vicinity.

(x) Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

(xi) Socio-economic status of the study area.

7) <u>Impact Assessment and Environment Management Plan</u>

(i) Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

(ii) Water Quality modelling.

(iii) Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

(iv) A note on treatment, recycling and reuse of wastewater from different plant operations, extent for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under EPA Rules.

(v) Details of stack emission and action plan for control of emissions to meet standards.

(vi) Measures for fugitive emission control

(vii) Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

(viii) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

(ix) Action plan for the green belt development in 33 % area with not less than 1,500 trees per hectares giving details of species, width of plantation, planting schedule, post plantation maintenance plan for 3 years shall be included. The green belt shall be around the boundary and a scheme for greening of the roads used for the project shall also be incorporated

(x) Action plan for rainwater harvesting measures at alternative sites shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the groundwater and also to use for the various activities to conserve freshwater and reduce the water requirement from other sources.

(xi) Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

(xii) Action plan for post-project environmental monitoring shall be submitted.

(xiii) Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with the District Disaster Management Plan.

8) Occupational health

(i) Details of existing Occupational & Safety Hazards. What are the exposure levels of above-mentioned hazards and whether they are within the Permissible Exposure Level (PEL)? If these are not within PEL, what measures the company has adopted to keep them within PEL so that the health of the workers can be preserved,

(ii) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre-designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.

(iii) Annual report of the health status of workers with special reference to Occupational Health and Safety.

(iv) Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

9) Corporate Environment Policy

(i) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

(ii) Does the Environment Policy prescribe for standard operating processes/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? If so, it may be detailed in the EIA.

(iii) What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

(iv) Does the company have a system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

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

11) Enterprise Social Commitment (ESC)

(i) To address the Public Hearing issues, 2.5% of the total project cost of (Rs.___crores), amounting to Rs.___crores, shall be earmarked by the project proponent, towards Enterprise Social Commitment (ESC). Distinct ESC projects shall be carved out based on the local public hearing issues. Project estimate shall be prepared based on PWD schedule of rates for each distinct Item and schedule for time-bound action plan shall be prepared. These ESC projects as indicated by the project proponent shall be implemented along with the main project. Implementation of such program shall be ensured by constituting a Committee comprising of the project proponent, representatives of village Panchayat & District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office. No free distribution/donations and or free camps shall be included in the above ESC budget

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

13) A tabular chart with index for points wise compliance of above TORs.

B. STANDARDISED SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR INDUCTION/ ARC FURNACES/CUPOLA FURNACES 5TPH OR MORE

(i) Details of proposed layout clearly demarcating existing & proposed features of the project within the plant.

(ii) Total no. of furnaces & details including capacity of each furnace.

(iii) Detail of the mechanical shredder to reduce the size of the raw material.

(iv) Complete process flow diagram describing each unit, its processes, and operations, along with material and energy inputs and outputs (material and energy balance).

(v) Details on the design and manufacturing process for all the units.

(vi) 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.

(vii) Details on the requirement of raw materials, its source, and storage at the plant.

(viii) Details on the requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).

(ix) Details on toxic metal content in the waste material and its composition and end-use (particularly of slag).

(x) Details on toxic content (TCLP), composition and end-use of chrome slag. Details on the recovery of the Ferro chrome from the slag and its proper disposal.

C. ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC

1. **The project proponent shall submit complete proposal for the management of ash at the time of submission of EIA report for obtaining environmental clearance.**

2. Public consultation is required for the projects as not located in notified industrial parks/estates.

3. Submit proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document showing status of land acquisition w.r.t. project site as prescribed in OM dated 07.10.2014 issued by MoEF)

4. Submit dully filled prescribed field data sheets and analysis reports along with exact location of sampling / monitoring point marked on the layout map. Also submit the status of approvals of Laboratories.

5. Submit cost of the project duly certified by Chartered Engineer/ Approved valuer / Chartered Accountant. In the absence of above, the project proponent may submit self-certified detail of cost of the project mentioning the cost of Land, building, infrastructure and plant & machinery

6. Certificate from the concerned authority w.r.t the location of protected areas as notified under the Wildlife Protection Act, 1972 within 5 km radius from the boundary of the project site.

(i) Certificate from the Department of Town & Country Planning or concerned authorities to support the claim made by project proponent that the project site is located in the industrial zone as per the provisions of Master Plan of Town/City in the jurisdiction of which the project site is located or the project proponent shall submit the Change of land use of the project site for total land area.

7. Compliance of the siting criteria, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.

8. Necessary permissions from the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA)/concerned authority for the abstraction of groundwater for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional groundwater for the expanded project, the project proponent shall propose alternative arrangements to meet out the additional water requirements. It shall be ensured that: -

    a) In the projects where groundwater is proposed as a water source, the project proponent shall apply to the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.

    b) Approval /permission of the CGWA/SGWA shall be obtained before drawing groundwater for the project activities.

    c) In the absence of approval, submit a copy of acknowledgment along with a set of application filed to CGWA /Competent Authority for obtaining permission for the abstraction of groundwater

9. Minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

10. STP for treatment of wastewater & re-utilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.

11. Reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.

12. In case of any acid pickling activity, the spent acid/effluents generated from such activities shall be utilized through authorized re-processors for converting the same into useful by-products like $FeSO_4$ etc. An agreement to this effect shall be made with the authorized agencies.

13. Adequate area to be reserved and marked on the layout plan for the green belt as per the conditions laid down by the MoEF&CC as per the Standard EC Conditions prescribed for Induction/ Electric Arc Furnace & Rolling Mills circulated vide OM dated 09/08/2018.

14. Detailed study report along with calculation for reserving land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking incorporating the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.

15. Action plan for the compliance of standard operating procedures and up-gradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.

16. Compliance of standard operating procedures and up-gradation of suction/treatment systems for the control of secondary emissions within the time frame prescribed by the State Pollution Control Board. Similar action is to be implemented in the proposed expansion project.

17. Whole of the vehicle movement area as well as the approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.

18. The vehicles to be used for loading/unloading purposes shall not be parked along the roadside so as to avoid the traffic congestion and dedicated parking place to be provided for the same.

19. Adopt green technologies to conserve the water and energy including shearing/cutting / bundling machines. Also, to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.

20. Use of natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.

21. Submit compliance w.r.t. condition no.II [(i) & (iii)] subtitled as "Air Quality Monitoring & Preservation" regarding continuous emission monitoring system and continuous ambient air quality monitoring as prescribed in the Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills issued by the MoEF&CC, New Delhi vide OM dated 09/08/2018.

22. Examine and submit the proposal for: -

    a) Recovery of iron from slag before disposing of it.

b) Identify the areas for utilization of slag in a scientific manner and explore its usage in cement/construction industry/manufacturing of pavers & tiles/road laying etc.

c) Recovery of precious metals like Zinc, lead and iron etc. from the APCD dust (Hazardous waste) through authorized re-processor.

23. Air Pollution Control Arrangement details shall be provided as below:

Plant /Unit	Pollutants	Qty generated	Method used to Control /specifications (attach Separate Sheet to furnish Details)	Number of units planned & Capacity	Budget	Estimated Post Control Qty Pollutant	
						Per Unit	Per day

24. Submit compliance regarding the installation of Pulse jet bag filter with offline cleaning technology as APCD with the proposed induction furnace.

25. List the species with heavy foliage, broad leaves and wide canopy cover. The landscape planning should include plantation of native species. Water intensive and/or invasive species should not be used for landscaping

The following general points shall be noted:

(i) The EIA document shall be printed on both sides, as for as possible.

(ii) All documents shall be properly indexed, page numbered.

(iii) Period/date of data collection shall be clearly indicated.

(iv) The letter/application for environmental clearance shall quote the MOEF / SEIAA file No. and also attach a copy of the letter.

(v) The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.

(vi) The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.

(vii) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF vide notification dated 03.03.2016 which is available on the website of this Ministry shall also be followed.

(viii) The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.

The Terms of Reference (ToR) prescribed by the State Expert Appraisal Committee (SEAC), Punjab should be considered for the preparation of EIA / EMP report for the project in addition to all the relevant information as per the Generic Structure of EIA given in Appendix III and IIIA in the EIA Notification, 2006.

Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for the conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification,2006. The Public Hearing shall be chaired by an Officer, not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarized in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made.

If any part of the data/information submitted by the project proponent is found to be false or misleading at any stage, then SEIAA & SEAC will not be responsible for the expenditure incurred on the project due to the issuance of this ToR or subsequent work carried out by the project proponent for conducting EIA study or for any other activity related to the project.

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

"The Project Proponent shall submit proposal for management of ash being generated from the boiler at the time of submission of EIA report."