

**MINUTES OF THE 95<sup>th</sup> GOA STATE ENVIRONMENT IMPACT ASSESSMENT  
AUTHORITY (GOA-SEIAA) MEETING HELD ON 24/01/2023 AT 03:30 P.M. IN  
THE CONFERENCE ROOM OF THE 4<sup>th</sup> FLOOR, DEMPO TOWER, PATTO,  
PANAJI-GOA.**

The 95<sup>th</sup> meeting of the Goa - SEIAA (*hereinafter referred as 'Authority'*) was held on 24<sup>th</sup> January 2023 at 03:30 pm in the conference room, 4<sup>th</sup> floor, Dempo Tower, Patto, Panaji. The list of members present during the meeting is annexed (*refer Annexure – 1*).

At the outset, Chairman welcomed Authority members and briefed about the agenda items (*refer Annexure – 2*) to be taken up for discussion / deliberations and suitable decision. Accordingly, the same were considered as detailed below.

**1. To decide on Violation case of M/s Orange Fox Steel Private Limited operating without Environmental Clearance.**

The representative of M/s Orange Fox Steel Private Limited Shri. Vikas Agarwal appeared before the Authority.

**Deliberation:** As per the reply received for the show cause notice, the Project Proponent has admitted the fact that the company has been operating without obtaining prior Environmental Clearance and the Project Proponent has initiated the process of filing the application for Environmental Clearance under violation category on Parivesh portal.

**Decision:** After scrutinizing the application submitted by the Project Proponent, the Authority noticed that the PP has made application for expansion under violation category. As the PP had wrongly applied under expansion, the PP requested the Authority to allow them to withdraw the submitted application and would apply afresh for the same under violation category.

**2. To decide on application for Amendment in ToR from Deltin Town located at Plot bearing Survey No. 243/1A, 263/1, 264/1, 265/1, 265/2, 265/25, 265/26, 266/1, 267/1, 267/1-A, 268/1, 268/2, 268/3, 268/4, 269/1, 280/1, 280/1-A and 280/1-B, Dhargalim village, Pernem Goa.**

The representative of Deltin Town Shri. Premanand Gawas (Sr. Manager) appeared before Authority and explained the details of the project.

**Deliberation:** After scrutinizing the application submitted by the Project Proponent, the Authority noticed that there is change in the earlier approved plan of the project. Therefore, the Authority directed the PP to submit the proposed



revised plan either as hard copy or email the same with high definition quality, in order to take further appropriate decision.

**Decision:** The Authority decided to defer the matter until the submission of earlier approved plan and proposed revised plan by the Project Proponent.

**3. To decide on application received from M/s Global Ispaat Private Limited for expansion of MS Billet & TMT Bars manufacturing units in Plot No. L-16, L-17, M-18, & M-19 and Survey Nos. 303/1, 303/3, 304/3, 327/4, 327/5, 295/1(P), 303/1(P), 303/2(P) & 303(P), Cuncolim Industrial Estate, Cuncolim, Salcete South Goa.**

The representative of M/s Global Ispaat Private Limited Shri. Sahil Sachdeva (Accountant) along with his consultant Mr. Vishal Sannakki appeared before the Authority and explained the details of the project.

**Decision:** After scrutinizing the application submitted by the Project Proponent the Authority has decided to grant following Terms of Reference for conducting Environment Impact Assessment Study.

#### **TERMS OF REFERENCE (TOR)**

##### **1) Executive Summary**

##### **2) Introduction**

1. Details of the EIA Consultant including NABET accreditation
2. Information about the project proponent
3. Importance and benefits of the project

##### **3) Project Description**

- a) Cost of project and time of completion.
- b) Products with capacities for the proposed project.
- c) If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- d) List of raw materials required and their source along with mode of transportation.
- e) Other chemicals and materials required with quantities and storage capacities
- f) Details of Emission, effluents, hazardous waste generation and their management.
- g) Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)



- h) Process description along with major equipments and machineries, process flow sheet(quantative) from raw material to products to be provided
- i) Hazard identification and details of proposed safety systems.
- j) Expansion/modernization proposals:
- k) Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.

**4) Site Details**

1. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
2. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places).
3. Details w.r.t. option analysis for selection of site.
4. Co-ordinates (lat-long) of all four corners of the site.
5. Google map-Earth downloaded of the project site.
6. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
7. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
8. 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).
9. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
10. Geological features and Geo-hydrological status of the study area shall be included.

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11. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
12. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
13. R&R details in respect of land in line with state Government policy.

#### **5. Environmental Status**

1. 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.
2. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
3. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQPM 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.
4. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
5. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
6. Ground water monitoring at minimum at 8 locations shall be included.
7. Noise levels monitoring at 8 locations within the study area.
8. Soil Characteristic as per CPCB guidelines.
9. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
10. 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.

11. Socio-economic status of the study area.

**6) Impact and Environment Management Plan**

1. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
2. Water Quality modelling - in case of discharge in water body
3. 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.
4. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E (P) Rules.
5. Details of stack emission and action plan for control of emissions to meet standards.
6. Measures for fugitive emission control.
7. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/ reuse/ recover techniques, Energy conservation, and natural resource conservation.
8. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
9. Action plan for the green belt development plan in 33 % area i.e. land with



not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

10. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
11. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
12. Action plan for post-project environmental monitoring shall be submitted.
13. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

#### 7) **Occupational health**

1. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
2. 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.
3. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
4. Annual report of health status of workers with special reference to Occupational Health and Safety.

#### 8) **Corporate Environment Policy**

1. 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.

2. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
3. 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.
4. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.
5. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
6. Enterprise Social Commitment (ESC).
7. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
8. 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.
9. A tabular chart with index for point wise compliance of above ToR.

**9) 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

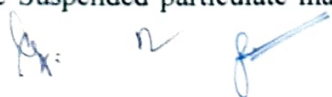
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proper calibration system.

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 aluminum, 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

#### **10) Additional ToR for Integrated Steel Plant**

1. Iron ore/coal linkage documents along with the status of environmental clearance of iron ore and coal mines
2. 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
3. For Large ISPs, 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.
4. Recent land-use map based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
5. Respirable Suspended particulate matter (RSPM) present in the ambient air





must be analysed for source analysis - natural dust/RSPM generated from plant operations (trace elements). The RSPM shall also be analysed for presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction, where applicable. Chemical characterization of RSPM and incorporating of RSPM data.

6. All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
7. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
8. Plan for slag utilization
9. Plan for utilization of energy in off gases (coke oven, blast furnace)
10. System of coke quenching adopted with justification.

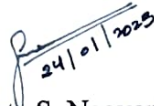
*The meeting ended with thanks to chair.*



(Smt. Reshma Mathew)  
**Member, Goa-SEIAA**



(Shri. Suhas Godse)  
**Chairman, Goa-SEIAA**



(Dr. Geeta S. Nagvenkar)  
**Member Secretary, Goa-SEIAA**

Place: Patto-Panaji

Date: 24<sup>th</sup> January 2023

### **Annexure – 1**

Shri. Suhas Godse

Chairman, Goa-SEIAA

Dr. Geeta S. Nagvenkar

Member Secretary, Goa-SEIAA

Smt. Reshma Mathew

Member, Goa-SEIAA

### **Annexure – 2**

#### **AGENDA OF THE 95TH GOA STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (GOA-SEIAA) MEETING ON 24/01/2023 AT 03.30 P.M. IN THE CONFERENCE ROOM OF THE 4<sup>th</sup> FLOOR, DEMPO TOWER, PATTO, PANAJI-GOA.**

1. To decide on Violation case of M/s Orange Fox Steel Private Limited operating without Environmental Clearance.
2. To decide on application for Amendment in ToR from Deltin Town located at Plot bearing Survey No. 243/1A, 263/1, 264/1, 265/1, 265/2, 265/25, 265/26, 266/1, 267/1, 267/1-A, 268/1, 268/2, 268/3, 268/4, 269/1, 280/1, 280/1-A and 280/1-B, Dhargalim village, Pernem Goa.
3. To decide on application received from M/S Global Ispaat Private Limited for expansion of MS Billet & TMT Bars manufacturing units in Plot No. L-16, L-17, M-18 & M-19 and Survey Nos. 303/1, 303/3, 304/3, 327/4, 327/5, 295/1(P), 303/1(P), 303/2(P) & 303(P), Cuncolim Industrial Estate, Cuncolim, Salcete South Goa.
4. Any other matter with permission of the chair.