

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-1 SECTOR)

Dated: 22.12.2023

Date of Zero Draft MoM sent to EAC: 21.12.2023

Approval by Chairman:22.12.2023

Uploading on PARIVESH:22.12.2023

**MINUTES OF THE 50TH EXPERT APPRAISAL COMMITTEE
(INDUSTRY-1 SECTOR) MEETING HELD ON 13TH– 15TH DECEMBER,
2023**

Venue: Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003 through Video Conferencing

Time: 10:30 AM onwards

DAY-1: DECEMBER 13, 2023 [WEDNESDAY]

(i) Opening Remarks by the Chairman, EAC

Shri Rajive Kumar, Chairman EAC welcomed the Committee members and opened the EAC meeting for further deliberations.

Shri Rajive Kumar also appreciated the efforts of the Ministry's Team (Industry 1 Sector) for preparation and uploading the agenda of the EAC meetings and draft record of discussion very scientifically, systematically and timely on Parivesh Portal. The EAC has also appreciated the various decision tools available in Parivesh Portal.

(ii) Details of Proposals and Agenda by the Member Secretary

Dr. R. B. Lal, Scientist 'F' & Member Secretary, EAC (Industry-1 Sector) appraised to the Committee about the details of Agenda items to be discussed during this EAC meeting.

(iii) Confirmation of the Minutes of the 49th meeting of the EAC for Industry-I sector held on 28th – 29th November, 2023 at MoEF&CC through Video Conferencing.

The EAC, having taken note that final minutes were issued after incorporating comments offered by the EAC (Industry-1 Sector) members on the minutes of its **49th meeting of the EAC for Industry-I sector held on 28th – 29th November, 2023** conducted through Video Conferencing Mode,

and noted that there is no modifications/factual correction reported by the PP, in the minutes of the 49th EAC meeting for the project/activities.

Details of the proposals considered during the 50th meeting **conducted** through **Video Conferencing**, deliberations made and the recommendations of the Committee are explained in the respective agenda items as under:

Consideration in Environmental Clearance Proposals

Agenda No. 50.1

50.1 Greenfield project for manufacturing of High Carbon Ferrochrome Manufacturing Unit of Capacity 96,000 TPA and 10 MW Power Generation by M/s Indian Metals and Ferro Alloys Limited, located at Kalinga Nagar Industrial Complex, Dist- Jajpur, Odisha - Consideration of Environmental Clearance.

[Proposal No.; IA/OR/IND1/443171/2023; File No. J-11011/273/2022-IA-II(I)]

[Consultant: Global Tech Enviro Experts Pvt. Ltd.; Valid upto: 01/02/2024]

50.1.1 M/s. Indian Metals and Ferro Alloys Limited has made an online application vide proposal no. IA/OR/INDI/443171/2023 dated 13.10.2023 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

50.1.2 Name of the EIA consultant: M/s. Global Tech Enviro Experts Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/23/2877; valid upto 01.02.2024, as on December 5, 2023].

Details submitted by Project proponent

50.1.3 The details of the ToR are furnished as below:

Date of application	Consideration	Details	Date of accord	ToR Validity
11.11.2022	18 th meeting of EAC held 28-29 November 2022	Terms of Reference	23.12.2022	22.12.2026
25.01.2023	23 rd meeting of EAC held 14-15 February 2023.	Amendment in Terms of Reference	22.03.2023	

50.1.4 The project of M/s Indian Metals and Ferro Alloys Limited, located at Kalinga Nagar Industrial Complex, District- Jajpur, Odisha is for setting up of a new HC Fe-Cr plant for production of 0.096 million Tons Per Annum (MTPA) & 10 MW power.

50.1.5 The proposal was initially considered during the 48th meeting of the EAC for Industry-I sector held on 8th – 9th November, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee (EAC during 8-9th November, 2023)

The Committee noted the following:

1. The EAC observed that PP /Consultant has not prepared and presented the Drone survey of the project site during the appraisal of the project although the same has been clearly mentioned in the agenda of the meeting. In view of the same, the EAC advised Project proponent/Consultant to present the drone survey during appraisal of the proposal. The EAC advised the Project proponent/Consultant to read the instructions/guidelines given in the Agenda before coming to the EAC meeting.
2. The EAC also observed that the validity of accreditation of the Consultant M/s. Global Tech Enviro Experts Pvt. Ltd. has expired on 06.11.2023 (as per list ACOs on the QCI website) and the Consultant has not submitted the extended validity letter. The EAC is of the opinion that the Consultant shall be warned to be careful in future and shall present the case only if their accreditation is valid on the day of consideration of the proposal.
3. Considering the above issues, the EAC observed that PP/Consultant are not ready to present their case and chose not to further appraise the instant proposal. Instead, the EAC advised that the PP/Consultant shall fulfil the basic requirements necessary for the proposal to be considered by the EAC.
4. The EAC agreed to the request of PP/Consultant and has allowed them to reappear after the revision of the application incorporating the desired information.

Recommendations of the Committee (EAC during 8-9th November, 2023)

In view of the foregoing and after detailed deliberations, the committee recommended to defer the proposal to address the shortcomings enumerated at para above. The proposal may be considered after submission of the requisite information.

50.1.6 The proponent submitted the ADS reply vide letter dated 24.11.2023 uploaded on PARIVESH on 24.11.2023. Point-wise reply of ADS is given as below:

S No	ADS Point	Reply / Response of PP
1	The EAC observed that PP /Consultant has not prepared and presented the Drone survey of the project site during the appraisal of the project although the same	Drone survey video covering of the project site & its surroundings (0.5 to 1.0 Km) is done which will be presented before EAC.

S No	ADS Point	Reply / Response of PP
	has been clearly mentioned in the agenda of the meeting. In view of the same, the EAC advised Project Proponent/ Consultant to present the drone survey during appraisal of the proposal.	
	The EAC advised the Project proponent/ Consultant to read the instructions/ guidelines given in the Agenda before coming to the EAC meeting.	Both PP as well as consultant are extremely sorry for the lapses on their parts and promise not to repeat in future.
2	The EAC also observed that the validity of accreditation of the Consultant M/s. Global Tech Enviro Experts Pvt. Ltd. has expired on 06.11.2023 (as per list ACOs on the QCI website) and the Consultant has not submitted the extended validity letter.	Validity of accreditation has been extended up to 1st February 2024 and on receiving the letter on 2nd November 2023 and it had been mailed to MoEFCC on 3rd November, 2023 but NABET had not uploaded on their web page. It has been uploaded and page enclosed.
	The EAC is of the opinion that the Consultant shall be warned to be careful in future and shall present the case only if their accreditation is valid on the day of consideration of the proposal.	Accreditation was valid on the date of presentation before EAC on 9th November 2023 and letter for validity extension up to 1st. February, 2024 had already been received since 2nd November, 2023 and it had been mentioned in PPT as well as in brief write up.
3	Considering the above issues, the EAC observed that PP/Consultant are not ready to present their case and chose not to further appraise the instant proposal.	Accepted.
	Instead, the EAC advised that the PP/Consultant shall fulfil the basic requirements necessary for the proposal to be considered by the EAC.	As now PP/ Consultant are ready now with requisite documents, the case may be considered.
4	The EAC agreed to the request of PP/Consultant and has allowed them to reappear after the revision of the application incorporating the desired information.	PP/ Consultant may be kindly be allowed to reappear in the next immediate meeting.

50.1.7 Based on the above submission, the proposal was re-considered during the 50th meeting of the EAC for Industry-I sector held on 13th-15th December, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

50.1.8 The Committee noted the following:

1. Total land area is 50.29 ha. The land is in industrial complex and has been allotted to M/s. IMFA for this green field project by IDCO Industries Department, Govt. of Odisha. The EAC noted that there is some unauthorized encroachment in two small patches on the project site, which is to be cleared by IDCO Industries Department, Odisha. As reported by PP, in triparted meeting held on 25.08.2023, the compensations and R&R benefits to be provided by IDCO have been finalized. State Administration & IDCO is in the process of evacuating and re-settling the displaced families in rehabilitation colony at Mantira. The EAC believes that the rehabilitation and resettlement (R&R) process is not yet finished, and the land is not fully ready for the project's implementation. The PP is instructed to provide the necessary documents detailing the progress made in this matter, along with an action plan and timeline for completing the R&R.
2. The EAC noted that the total water requirement for the total project was estimated as 2250 m³/day at the time of appraisal of ToR application. However, during the instant application for EC, PP has reported that the water requirement for the proposed project is estimated as 5,202 m³/day, out of which 2,250 m³/day of freshwater requirement will be obtained from the River Brahmin through IDCO pipe line and the remaining requirement of 2,592 m³/day will be met from waste water treated & recycled from ETP and 360 m³/day for rain water harvesting. The EAC opined that PP should provide a justification for the increased water requirement and must submit a revised water balance diagram accordingly.
3. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and observed that PM_{2.5} and PM₁₀ values are recorded on a higher side. PP/Consultant shall submit the stack data and stringent plan to minimise the levels of PM_{2.5} and PM₁₀.
4. The EAC noted that there is discrepancy between the proposed project cost and the EMP cost in the brief provided for instant EC application in comparison to the costs mentioned in the TOR. The EAC recommends that the PP shall verify this inconsistency and provide a justification for the disparity and correct the data as the whole process of EC is online on Portal.
5. The Committee discussed the data from the traffic assessment study presented by the project proponent and suggests that the PP should revisit the traffic study and submit a revised assessment.
6. The Consultant presented the drone video of the project site. The EAC is of the view that approach roads and roads within the premises shall be planned in such a way that tree felling shall be restricted to bare minimum. PP shall submit a revised layout if required in this regard.
7. The EAC observed that there is no proper Engineering drawing of a layout. It is missing area statement, index etc. The PP shall prepare 3 separate drawings as a layout details. In Drg 1 PP shall cover Road networking, Plan Layout, Parking along with area statement

showing % of all ingredients i.e. roads, Buildings, Parking, with indexing, scale of drawing etc. In no case road shall be abruptly terminated at any point. It shall have proper looping. PP also to show traffic flow in the drawing along road with entry and exit. In drg 2 PP shall show a layout indicating road networking, Existing Green belt and proposed Green Belt with its % against plot area including no of species WRT 2500 density per ha. In drg3 PP shall show contour map with Bench mark, Road network and drainage network along road side with drainage flow, disposal of drainage flow at lowest point with invert level etc. Further PP to show RWH details in the same drawing with calculations.

8. The EAC discussed the greenbelt plan and opines that it should be revised to account for the completion of the proposed greenbelt within a one-year timeframe.
9. The EAC observed that the PP has proposed the disposal of HC Fe-Cr slag in the Sukinda Captive Chromite ore mine, located 40 kilometres away from the project site. This plan involves utilizing approximately 25 lakhs cubic meters of void space in the open cast for filling. Additionally, the PP intends to explore alternative options such as utilization in construction and supplying to nearby cement plants. However, the EAC considers the current disposal plan less effective and recommends that the PP review and submit a comprehensive statement addressing the disposal of HC Fe-Cr slag as per provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016 and other SOP prepared by CPCB in this regard.
10. Similarly, the EAC opines that PP shall also prepare a plan for management and disposal of e-waste as per provisions of the E-Waste Rules 2016 and other SOP prepared by CPCB in this regard.
11. The PP shall provide a comprehensive disposal plan for dust collected from the bag filters.
12. The EAC deliberated on the isopleths data presented by the PP/Consultant and is of the view that there should be a justification for the unidirectional plumes. Additionally, the EAC suggests providing information on the duration of data collection used to generate the isopleths.
13. The EAC further deliberated on the operations of the plant and is of the view that there is a need to explore the possibility of providing CO sensors with alarm at the top of the furnace.
14. The EAC is of the view that the Consultant has not prepared the adequate report mitigating the various impacts from the project. The EAC has advised Consultant to revise the EIA/EMP Report and Presentation of the proposal. In view of the same, the EAC opined that PP needs to update the EIA/EMP Report with all the desired details and shall submit the revised EIA/EMP report for consideration of the proposal.
15. The EAC agreed to the request of PP/Consultant and allowed them to reappear after the revision of the application incorporating the desired information.

Recommendations of the Committee:

50.1.9 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** to address the shortcomings enumerated at para no. 50.1.8 above. The proposal may be considered after submission of the requisite information.

Agenda No. 50.2

50.2 Expansion in existing Steel Manufacturing unit having existing capacity 25,200 TPA of Steel Ingots/ Billets to 84,000 TPA of Steel Billets/ Ingots by replacement of Induction Furnace of capacity 2x3.5 TPH with 2 no. of Induction Furnaces of capacity 10 TPH & Concast by M/s Sharu Steels Pvt. Ltd. (Induction Furnace), located at B-48, Phase-VII, Focal Point Ludhiana, Punjab – Consideration of Environmental Clearance.

**[Proposal No.; IA/PB/IND1/444976/2023; File No. IA-J-11011/344/2019-IA-II(IND-I)
[Consultant: Chandigarh Pollution Testing Laboratory; Valid upto 12.02.2025]**

50.2.1 M/s Sharu Steels Pvt. Ltd. (Induction Furnace) has made an online application vide proposal no. IA/PB/IND1/444976/2023 dated 15.11.2023 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous) under Category “B” of the schedule of the EIA Notification, 2006 and attracts general condition due to the project located within Critically Polluted Area (CPA) of Ludhiana and therefore being appraised at Central Level.

50.2.2 Name of the EIA consultant: M/s. Chandigarh Pollution Testing Laboratory [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2225/RA 0250; valid upto 12.02.2025, as on December 5, 2023].

Details submitted by Project proponent

50.2.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
14.11.2019	13 th REAC (Industry-I) meeting held on 27-29 th November, 2019	Terms of Reference	31.01.2020	30.01.2024

50.2.4 The project of M/s Sharu Steels Pvt. Ltd. (Induction Furnace), located at B-48, Phase-VII, Focal Point Ludhiana, Punjab is for expansion in existing Steel Manufacturing unit having existing capacity 25,200 TPA of Steel Ingots/ Billets to 84,000 TPA of Steel Billets/ Ingots by

replacement of Induction Furnace of capacity 2x3.5 TPH with 2 no. of Induction Furnaces of capacity 10 TPH & Concast.

50.2.5 Environmental Site Settings:

S. No.	Particulars	Details	Remarks
i.	Total land	The industry is having 2.77 acres or 11223.0 Sqm. of land. No additional land will be required for expansion.	Acquired
ii.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Land acquisition is completed.	
iii.	Existence of habitation & involvement of R&R, if any.	As this is brownfield project, the project doesn't involve any displacement of population and subsequent Rehabilitation & Resettlement. Further, for expansion no additional land is acquired. Mundian Khurd-1.42 km, NE Dhandari Kalan -2.23km , SW	
iv.	Latitude and Longitude of the project site	Latitude	30°52'22.36"N, 30°52'21.32"N, 30°52'19.47"N, 30°52'20.35"N,
		Longitude	75°56'39.33"E, 75°56'40.79"E, 75°56'38.87"E, 75°56'37.46"E,
v.	Elevation of the project site	280 m	
vi.	Involvement of Forest land if any.	No forest land is involved.	
vii.	Water body exists within the project site as well as study area	Project site: Nil Study area: Sirhind Canal – 9.5 km, SE Buddha Nallah – 6.4 km, N	
viii.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	Nil.	
ix.	CPA/SPA/ESA/ESZ, if any.	The project site falls within 5KM radius of the "Critically Polluted Areas" Ludhiana as notified by the Central Pollution Control Board, categorizing the project as Category 'A'.	

50.2.6 The existing project has obtained Consent to Operate under the Water Act, 1974 and Air Act, 1981 from Punjab Pollution Control Board Vide no. CTOW/Renewal/LDH4/2019/11276067 dated 05.11.2019 which is valid upto 30-06-2023 & CTOA/Renewal/LDH4/2020/11275935 dated 15/07/2020 which is valid upto 30/06/2023 for production of 84,000 TPA Steel Ingots/Billets.

50.2.7 Implementation status of the existing CTE/CTO:

S. No.	Name	Existing Units		Implementation Status	Remarks
		Configuration	Production TPA		
1.	Steel Ingot/ Billet, (TPA)	Induction Furnace- 2x3.5 TPH	25,200	Implemented	-

50.2.8 The unit configuration and capacity of existing and proposed project is given as below:

S. No.	Name	Existing Units		Proposed Units		After Expansion	
		Configuration	Production TPA	Configuration	Production TPA	Configuration	Production TPA
1.	Steel Ingot/ Billet, (TPA)	Induction Furnace- 2x3.5 TPH (to be replaced)	25,200	Induction Furnace- 2x10TPH and CCM	63,962	Induction Furnace- 2x10 TPH and CCM	84,000

50.2.9 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S. No.	Raw material	Quantity required per annum in TPA			Source	Distance from Site	Mode of transportation
		Existing	Expansion	Total			
1.	MS Scrap (TPA)	27,413	63,962	91,375	Local and International markets	100 Km	By Road
2.	Ferro-alloys (TPA)	559	1,306	1,865			

50.2.10 The total water requirement of the project is estimated at 30.5 KLD. Domestic water requirement is 11.5 KLD and for cooling purposes is 19.0 KLD. The daily requirement of water will be met through the Ground Water, for which permission from PWRDA vide permission no. PWRDA/03/2022/L1/328 has already been obtained on dated 25.03.2022

50.2.11 The total power requirement for the proposed project is estimated as 14,568 kVA. The demand of electricity will be sourced from Punjab State Power Corporation Limited (P.S.P.C.L.) One D.G. Sets (230 KVA) are there as power failure back-up

50.2.12 Baseline Environmental Studies:

Period	Details submitted by the PP
AAQ parameters at 8 locations	<p>November, 2019 to January, 2020</p> <ul style="list-style-type: none"> • PM10 = 66.3 to 112.5 µg/m³ • PM2.5 = 29.5 to 68.9 µg/m³ • SO₂ = 6.2 to 12.5 µg/m³ • NO₂ = 15.2 to 32.8 µg/m³ • CO = 0.40 to 0.60 mg/m³ <p>November, 2022 to January, 2023</p> <ul style="list-style-type: none"> • PM10 = 58.8 to 104.5 µg/m³ • PM2.5 = 33.5 to 68.3 µg/m³ • SO₂ = 5.5 to 12.2 µg/m³ • NO₂ = 12.2 to 29.8 µg/m³ • CO = 0.31 to 0.68 mg/m³
AAQ modelling (Incremental GLC)	<p>The maximum predicted GLC for 24 hourly average concentrations after the proposed expansion at site shall be 1.18 ug/m³. The maximum predicted concentration of PM₁₀ after unit operation will be 101.1 ug/m³ which is below the prescribed standard of 100 ug/m³.</p>
Ground water quality at 8 locations	<p>November, 2019 to January, 2020</p> <ul style="list-style-type: none"> • pH- 7.14-7.44 • Total Hardness: 220-250 mg/l • Fluorides: 1.10-1.20 mg/l • Chlorides: 12.0 to 18.0 mg/l • Total Dissolved Solids: 310-341 mg/l • Heavy metals are within the limits. <p>November, 2022 to January, 2023</p> <ul style="list-style-type: none"> • pH- 7.18-7.62 • Total Hardness: 226-250 mg/l • Fluorides: 1.12-1.22 mg/l • Chlorides: 12.4 to 18.4 mg/l • Total Dissolved Solids: 324-345 mg/l Heavy metals are within the limits.
Surface water quality at 2 locations	<p>November, 2019 to January, 2020 Sirhind Canal</p> <ul style="list-style-type: none"> • pH of the surface water collected ranged from 7.9-8.1 • TDS was found to be 308-346 mg/l. The tolerance limit is 1,500 mg/l as per IS:2296 • Total hardness was found to be 140-150 mg/l. • Total Coliform in water was 565-895 MPN/100ml. The likely source of bacteriological contamination may be due to the proximity to residential area • All the heavy metals were not detectable.

	<p>Buddha Nallah</p> <ul style="list-style-type: none"> • pH of the surface water collected ranged from 7.25- 7.32. • TDS was found to be 222-232 mg/l. The tolerance limit is 1,500 mg/l as per IS:2296 • Total hardness was found to be 132-150 mg/l. • Total Coliform in water was 550-860 MPN/100ml. The likely source of bacteriological contamination may be due to discharge of untreated/partially treated /treated sewage being only the source for discharge of sewage for Ludhiana city. • All the heavy metals were not detectable. <p>November,2022 to January,2023 Sirhind Canal</p> <ul style="list-style-type: none"> • pH of the surface water collected ranged from 7.49- 7.52 • TDS was found to be 142-154 mg/l. The tolerance limit is 1,500 mg/l as per IS:2296 • Total hardness was found to be 104-112 mg/l. • Total Coliform in water was 2100-2600 MPN/100ml. The likely source of bacteriological contamination may be due to the proximity to residential area • All the heavy metals were not detectable. <p>MPN/100ml. The likely source of bacteriological contamination may be due to discharge of untreated/partially treated /treated sewage being only the source for discharge of sewage for Ludhiana city.</p> <p>➤ All the heavy metals were not detectable.</p>												
<p>Noise levels at 8 locations</p>	<p>January-March, 2020</p> <p>Noise levels in the study area vary from 50.2 to 70.2 dB (A) during day time and 46.4 to 68.4 dB (A) at night time. The highest levels were observed at Project Site.</p> <p>Mid-September-Mid October, 2021</p> <p>Noise levels in the study area vary from 51.6 to 71.4 dB (A) during day time and 41.2 to 68.4 dB (A) at night time. The highest levels were observed at Project Site.</p>												
<p>Traffic assessment study findings</p>	<p>From the traffic study, it is inferred with the proposed expansion coming into being an average 25 trucks/day each @20 ton will be added to the existing traffic. The traffic study on both sides was conducted by physical count of the vehicles for 24 hrs. From the traffic study it is observed that, there will be insignificant impact on the link road due to proposed expansion, and the existing road network is sufficient to cater the load.</p> <p>Existing Traffic Scenario & LOS-Point 'A'</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V</th> <th>C</th> <th>V/C ratio</th> <th>LOS</th> <th>Performance</th> </tr> </thead> <tbody> <tr> <td>Below the bridge</td> <td>2595</td> <td>6000</td> <td>0.43</td> <td>C</td> <td>Good</td> </tr> </tbody> </table> <p><u>Existing Traffic Scenario & LOS-Point 'B'</u></p>	Road	V	C	V/C ratio	LOS	Performance	Below the bridge	2595	6000	0.43	C	Good
Road	V	C	V/C ratio	LOS	Performance								
Below the bridge	2595	6000	0.43	C	Good								

Road	V	C	V/C ratio	LOS	Performance
Turning point from Bhadla Road to Industries	2436	6000	0.42	C	Good
<u>Modified Traffic Scenario & LOS-Point 'A'</u>					
Road	V	C	V/C ratio	LOS	Performance
Below the bridge	2595+3*25 = 2670	6000	0.45	C	Good
<u>Existing Traffic Scenario & LOS-Point 'B'</u>					
Road	V	C	V/C ratio	LOS	Performance
Turning point from Bhadla Road to Industries	2463+3*25 = 2538	6000	0.42	C	Good
Result: From the traffic study it is observed that, there will be insignificant impact on the link road due to proposed expansion. Hence, the additional load will not impact the carrying capacity of existing road network. However, the problem of haphazard parking of vehicles on either side of the link road is a matter of concern to be addressed by concerned authorities.					
Flora and fauna	None of reported species in study area belongs to Rare, Endangered or Threatened category, and as per Indian Wild Life (Protection) Act, 1972, no Schedule-I species were found during study period.				

50.2.13 The details of solid waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Waste	Source	Quantity	Disposal
1.	APCD Dust	Induction Furnace	0.9 TPD	Shall be given to authorized M/s Madhav KRG Environmental Solutions Pvt Ltd for metal recovery.
2	Furnace Slag	Induction Furnace	13.8 TPD	Slag which is not a H.W. will be generated and the same after recovery of iron will be supplied to Shree Radhey Tile Industries manufacturers of interlocking tiles, Manhole Cover, Road Jali, Benches, Fencing Pillar (Burji) & Cover Blocks (Gitti) under proper agreement. The PP shall ensure the disposal of slag as per provisions of Waste Rules of 2016.
3	Used Oil	DG sets	0.04Kl/Annum	Will be re-used as lubricants for machines

50.2.14 Public Consultation:

Details of advertisement given	Public hearing notice was published on 22.02.2021 in a prominent newspaper namely 'Hindustan Times' and 'Punjabi Tribune'
Date of public consultation	24.03.2021
Venue	B-48, Focal Point, District- Ludhiana, Punjab
Presiding Officer	Additional District Commissioner (General), Ludhiana
Major issues raised	No issues or concerns were raised.

Action plan as per MoEF&CC O.M. dated 30/09/2020

S. No.	Activity	Budgetary Allocation (Rs. In Lakhs)	Timeline
1.	Rainwater harvesting from the rooftop of Government Senior Secondary Smart school of village Mundian Kalan, Ludhiana.	10.0	Within one year of grant of EC.
2.	Solar panel (10KW) in Government Senior Secondary Smart school of village Mundian Kalan, Ludhiana.	5.0	November 2024
3.	Solemnization of marriage of two girls belonging to poorest families within the buffer zone.	10.0	March 2024 March 2025
4.	Awareness campaign against the ill environmental effects of Single Use Plastics (SUP) and distribution of biodegradable carry bags 1500 bags.	4.0	Awareness campaign will be held once within one month of grant of EC & 500 bags/ year on alternative basis to the surrounding villages will be distributed within three months of grant of EC.
	Total	29.0 Lakhs	

50.2.15 The capital cost of the project is Rs. 16.54 Crores including the cost of expansion and the capital cost for environmental protection measures is proposed as Rs 168.24 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 21.84 Lakhs. The proposed project will provide employment to total 150 number of people. The details of cost for environmental protection measures are as follows:

S.No.	Particulars	Approximate Capital Cost (Rs Lakhs)	Approximate Recurring Cost (Rs Lakhs)	Basic of Cost Estimate
1.	Air Pollution	110.0	5.0	Capital Cost: Dust Collection, Scrubber, Fume extraction system, Adequate stack APCD, OCEMS etc. Recurring Cost: Cost of stack management, operations & maintenance.
2.	Water Pollution	15.0	2.0	Capital Cost: Installation of ETP, STP, Manpower, Cost of chemicals, RWH & Water Conservation measures Recurring Cost: Effluent analysis, Maintenance of RWH structures, Waste water utilization etc.
3.	Noise Pollution	5.0	0.50	Capital Cost: Installation of acoustic enclosures. Recurring Cost: Monitory and Maintenance cost
4.	Solid & Hazardous Management	10.0	1.5	Capital Cost: Maintenance of TSDF, storage area for different type of wastes. Recurring Cost: Cost of transportation & storage of solid & Hazardous waste.
5.	Green Belt	11.24	11.24	Capital Cost: Green belt development cost. Recurring Cost: Green belt maintenance cost
6.	Occupational Health & Safety	15.0	1.0	Capital Cost: Occupational Health center, PPE etc. Annual health checkup & work place monitory.
7.	Environmental Monitoring	--	0.50	Environmental monitoring of Water, Air, Noise and Soil through NABL approved Laboratory
8.	Energy Conservation	2.0	0.10	
Total		168.24	21.84	

50.2.16 40% i.e. 4498.14 sqm of total area as per MoEF&CC stipulated norms is being developed as the green belt. The required no. of 1124 trees for greenbelt have already been planted. Tree species are Arjun, Baheda, Neem, Simbal, Kachnar, Jamun & Drek having height of 5-6 feet will be planted. The budgetary allocation is Rs. 11.24 Lakhs under EMP cost as capital cost and Rs 11.24 lakhs as recurring cost (for 3 years).

50.2.17 It is reported that there is no violation under EIA, 2006/court case/show cause/direction related to the project under consideration.

50.2.18 Certified Compliance Report from Regional Office:

The Status of compliance of earlier Consent was obtained from State Pollution Control Board. As per the report the conditions have been complied with by the project proponent.

50.2.19 CPA Action Plan:

The following measures will be taken for the compliance of CEPI guidelines 2019:

Sl. No.	Particular	Compliance
1.	Air pollution control measures	<ul style="list-style-type: none"> i. Pulse Jet Bag filter house having PTFE membrane bag filters, which will be cleaned with offline technology by compartmentalizing the bag filters, to achieve the emission standard of 30mg/Nm³. ii. Particulate matter (PM) standard at stack emission will be considered as 30 mg/ Nm³ in place of 150 mg/Nm³ iii. Online Continuous emissions monitoring system (OCEMS) will be installed to get the real time data of PM to be discharged into the atmosphere. This OCEMS shall be got calibrated from time to time. This system shall be attached with the server of the PPCB/CPCB. iv. For process emissions to be generated from the induction furnaces, side hood will be installed to collect the entire emissions. This hood will remain in position for suction of emissions even during charging of raw material in the furnaces. v. Transportation of materials will be done through trucks. vi. Induction furnace will run on electricity and HSD will be used as fuel in the DG sets, which will be used to supply the electricity for lightning purpose during failure of power supply. vii. Best available Technology based Induction furnace will be installed.

Sl. No.	Particular	Compliance
		viii. An estimated 1124 trees saplings are required to be planted in 40% of project area against which more than 1124 trees has already been planted.
2.	Water pollution control measures:	<ul style="list-style-type: none"> i. Treated domestic waste-water will be used for plantation within the premises. ii. This industry doesn't use water in manufacturing process. Water is only required for domestic purpose and cooling tower make-up. iii. The management of the M/s Sharu Steels (P) Ltd. desire to harvest rain water falling on various rooftops of the building during monsoon & non-monsoon period to reuse that water for green belt within the industry and also one pond of at Jandiali, Ludhiana. iv. No waste-water will be thrown out-side the premises, it will follow ZLD system. v. Domestic waste-water generation is about 9.2 KLD, which will be treated in STP of 10 KLD and the same water will be used for plantation.
3.	Land pollution control measures	<ul style="list-style-type: none"> i. An estimated 1124 trees saplings are required to be planted in 40% of project area against which more than 1124 trees has already been planted. ii. Slag is/will be Sent to M/s Shree Radhey Tiles Industries under proper agreement. iii. APCD dust will be also covered under hazardous waste and sent to Send to M/s. Madhav KRG Environmental Solutions Pvt. Limited for final disposal.
4.	Additional Air Pollution control measures	<p>Induction Furnaces:</p> <ul style="list-style-type: none"> i. Side suction hoods will be provided on the furnace which will remain in position at all the times even during charging of the scrap in the furnace. Since the side suction hood to be provided, will be able to collect the entire emissions even during charging time of scrap to the furnace unlike a canopy type hood, due to which the same has been preferred. The hood will be connected with spark arrestor of the bag filter house. ii. The ID fan of sufficient capacity will be provided to have a minimum pressure drop of 20 mm at the face of the side hood for suction of entire quantity of emissions. iii. The bag filter house will be provided with poly tetra fluoro ethylene (PTFE) membrane bag filters to achieve emission standards of 30 mg /Nm³ in respect of SPM as

Sl. No.	Particular	Compliance
		<p>such bag filters are capable to contain particulate matter of size less than 2.5 microns in size at over 99.9% efficiency.</p> <p>iv. Cyclone separator will be provided before bag filter.</p> <p>v. Only trained manpower will be deployed for proper and effective operation of APCD. Project will have side extension hood to control secondary emissions and there will be re-heating furnace with Twin cyclone followed by wet scrubber.</p>

Deliberations by the Committee

50.2.20 The Committee noted the following:

1. The instant proposal is for expansion in existing Steel Manufacturing unit having existing capacity 25,200 TPA of Steel Ingots/ Billets to 84,000 TPA of Steel Billets/ Ingots by replacement of Induction Furnace of capacity 2x3.5 TPH with 2 no. of Induction Furnaces of capacity 10 TPH & Concast.
2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
5. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
6. The existing project has obtained Consent to Operate under the Water Act, 1974 and Air Act, 1981 from Punjab Pollution Control Board Vide no. CTOW/Renewal/LDH4/2019/11276067 dated 05.11.2019 which is valid upto 30-06-2023 & CTOA/Renewal/LDH4/2020/11275935 dated 15/07/2020 which is valid upto 30/06/2023

for production of 84,000 TPA Steel Ingots/Billets. Based on the data provided by the PP, the EAC is of the view that EC was not required for the existing project.

7. Total land available is 2.77 acres or 11223.0 Sqm. of land which is in possession of the company. No additional land will be required for expansion.
8. The EAC noted that the project is located in Critically Polluted Area of Ludhiana, Punjab and also deliberated on the submitted mitigation plan in accordance to CEPI guidelines. The EAC is of the opinion that the mitigation plans on CPA shall be strictly implemented.
9. There are sensitive areas such as Mundian Khurd and Dhandari Kalan Villages within the study area of the project site. The EAC is of the opinion that PP shall prepare and strictly implement the environmental safeguard measures to minimise the impact on the habitation of the locals.
10. The total water requirement of the project is estimated at 30.5 KLD. which is proposed to be met through the Ground Water. The EAC is of the opinion that necessary permission shall be obtained from the competent authority. Further, PP shall explore the possibility for gradual phase out through alternate source to reduce dependency on ground water.
11. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and is of the opinion that stringent plan shall be prepared and implemented to minimise the pollution.
12. The PP has submitted that 40% i.e. 4498.14 sqm of total area is being developed as the green belt. The required no. of 1124 trees for greenbelt have already been planted. The EAC deliberated on the greenbelt layout plan along with action plan and the budget earmarked and found it satisfactory.
13. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
14. The Committee also deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
15. The EAC deliberated on the certified compliance report of RO, SPCB and found it satisfactory.
16. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
17. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974

and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

18. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

- 50.2.21 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. In pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be implemented as per the submitted plan.
- v. There are sensitive areas such as Mundian Khurd and Dhandari Kalan Villages within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- vi. The water requirement of 30.5 KLD shall be met from ground water only after obtaining necessary permission from the Competent Authority. PP shall explore the possibility for gradual phase out through alternate source to reduce dependency on ground water.
- vii. Three tier Green Belt shall be developed in at least 40% of the project area as per the committed plan all along the project site of adequate width and tree density shall not be

less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

- viii. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 0.29 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- ix. PP shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.

B. General Conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area covering upwind and downwind directions.
- iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.

- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
- x. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xi. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiii. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
- xiv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- xv. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xvi. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xvii. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- xviii. Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance report.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system

from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.
- iii. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- iv. Practice hot charging of slabs and billets/blooms as far as possible.
- v. Ensure installation of regenerative type burners on all reheating furnaces.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. 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 and 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 monitor able with defined time frames.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. 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 as committed.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the

- Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
 - ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 - x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
 - xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
 - xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 - xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Agenda No. 50.3

50.3 Expansion of Sponge Iron Plant(1,20,000 to 15,84,000 TPA),Captive Power Plant(10 MW to 145 MW–WHRB, AFBC & CFBC Boiler), Ferro Alloy (1x9 MVA to 8x9 MVA), along with New Installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2x2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding by M/s SPS

Steels Rolling Mills Limited at Village Poradiha, Chandurdi & Shunurhi, PO – Pachhandapur, PS–Santuri, Tehsil Raghunathpur, District Purulia, West Bengal– Consideration of Environmental Clearance.

[Proposal No: IA/WB/IND1/449942/2023; File No. IA-J-11011/150/2022-II (IND-I)]
[Consultant: J.M. EnviroNet Pvt. Ltd.; Valid upto: 30.01.2024]

50.3.1 M/s. SPS Steels Rolling Mills Limited has made an online application vide proposal no.: IA/WB/IND1/449942/2023 dated 22.11.2023 along with copy of EIA report, Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level.

50.3.2 Name of the EIA consultant: M/s. J.M. EnviroNet Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter; valid upto 30.01.2024, as on December 5, 2023].

Details submitted by Project proponent

50.3.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
26.04.2022	Standard Terms of Reference	Terms of Reference	30.04.2022	29.04.2026

50.3.4 The project of M/s SPS Steels Rolling Mills Limited located at Villages : Poradiha, Chandurdi & Shunurhi, PO: Pachhandapur, PS : Santuri, Tehsil : Raghunathpur, District : Purulia, West Bengal is for an expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW – WHRB, AFBC & CFBC boiler), Ferro Alloy (1 x 9 MVA to 8 x 9 MVA), along with new installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2 x 2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding.

50.3.5 Environmental Site Settings:

S. No.	Particulars	Details submitted by the PP
i.	Total land	The existing plant area is 37.65 Acres (15.24 Ha) and additional area required for expansion is 282.95 Acre (114.51 Ha). Hence after expansion, the total plant area will be 320.60 acres (129.75 ha).
ii.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Out of total plant area, 26.67 Ha land is under the possession of the company. For 32.03 Ha land, LTS (Long Term Settlement) is applied to Govt. of West Bengal and for 71.05 Ha land, consents have been

S. No.	Particulars	Details submitted by the PP																																													
		taken from the land owners. The PP has submitted the documentary proof in this regard.																																													
iii.	Existence of habitation & involvement of R&R, if any.	<p>Plant Site: No habitation exists within the plant site. Study Area: Village falling near to the project site is given below:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Beljhupa</td> <td>0.2</td> <td>South</td> </tr> <tr> <td>Banspatali</td> <td>0.5</td> <td>East</td> </tr> <tr> <td>Chandurdih</td> <td>0.8</td> <td>West</td> </tr> <tr> <td>Dumdumi</td> <td>0.8</td> <td>NNW</td> </tr> </tbody> </table>	Habitation	Distance (km)	Direction	Beljhupa	0.2	South	Banspatali	0.5	East	Chandurdih	0.8	West	Dumdumi	0.8	NNW																														
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v.	Elevation of the project site	101 m to 118 m above mean sea level.																																													
vi.	Involvement of Forest land if any.	No Forest Land is involved in the project site.																																													
vii.	Water body exists within the project site as well as study area	<p>Plant site:</p> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Seasonal Nala</td> <td>~0 Km (inside plant premises)</td> <td>NW</td> </tr> </tbody> </table> <p>Adjacent to the Plant site:</p> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Stream</td> <td>~0 Km (adjacent to the plant)</td> <td>E</td> </tr> </tbody> </table> <p>Study area: Four water bodies fall within 10 km radius:</p>	Water body	Distance (km)	Direction	Seasonal Nala	~0 Km (inside plant premises)	NW	Water body	Distance (km)	Direction	Stream	~0 Km (adjacent to the plant)	E																																	
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S. No.	Particulars	Details submitted by the PP		
		Water body	Distance (km)	Direction
		Damodar River	~1.0	ENE
		Machkanda Jora	~2.0	NW
		Ramchandrapur Reservoir	~5.5	SW
		Bangarpur Nala	~6.5	East
viii.	Existence of ESZ/ESA/national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. if any within the study area.	<p>No National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. lies within 10 km radius. Some Reserved Forests (RF) & Protected Forests (PF) are present namely:</p> <ul style="list-style-type: none"> • Dandahit PF (~4.0 km in South direction) • Protected forest (~5.0 km in SE direction) • Lediam PF (~6.5 km in SSW direction) • Pirargoriya PF (~7.0 km in South direction) • Nimitkuri PF (~7.5 km in SSW direction) • Bheti PF (~7.5 km in SW direction) • Kashikunri PF (~8.5 km in South direction) • Panchet RF (~8.5 km in West direction) • Santuri PF (~9.0 km in SSW direction) 		

50.3.6 The existing project was accorded consent to Establish obtained from West Bengal Pollution Control Board for MS Billets 6,650 TPM & Ferro Manganese 1,300 TPM: Vide Consent No. 23716, Memo No. 10237-2N-543/2004 dated 15.03.2005 and Consent to Establish obtained from West Bengal Pollution Control Board for DRI 10,000 TPM (4 x 100 TPD) & CPP 10 MW: Vide Consent No. 23817, Memo No. 271-2N-543/2004 dated 24.05.2005 valid till 30.07.2007 in name of M/s Vikash Metal & Power Limited. The name change for Consent to Establish was obtained vide NOC No. 158944, Memo No. 19-WPBA/NOC/Red(428)/(Prl)/2021 dated 11.01.2022. Consent to Operate for Air and Water has been obtained for 10,000 TPM Sponge Iron Plant and Captive power generation of 10 MW vide Consent letter No. CO131828, Memo No. 217-WPBA/Red (Prl)/Cont (114)/03 dated 25.03.2022 & Consent to Operate for Air and Water obtained from West Bengal Pollution Control Board for Ferro Manganese/Silico Manganese/Ferro Silicon off 1300 ton/month capacity vide Consent letter No. CO134634, Memo No. 59 C-WPCB/Red/Prl/Cont/114/03 dated 30.01.2023. The validity of both CTOs is up to 28.02.2027. Based on the information provided by the PP the EAC is of the view that EC was not required for the existing project.

50.3.7 Implementation status of the existing CTE/CTO:

S. NO	FACILITIES	UNITS	AS PER CTE/CTO	IMPLEMENTATION STATUS	PRODUCTION AS PER CTO
01.	Sponge Iron Plant	4 x 100 TPD	10,000 TPM	Operational	10,000 TPM
02.	SMS -1 (IF Route with CCM)	4 x 8 T	8,810 TPM	Non Operational	-
03.	Rolling Mill - TMT with RHF	25 TPH	4,000 TPM	Non Operational	-
04.	CPP (WHR Boiler - 4 x 10TPH AFBC Boiler - 16TPH)	56 TPH	10 MW	Operational	10 MW
05.	Ferro Alloy Plant	1 x 9 MVA SAF	1,300 TPM	Operational	1,300 TPM

50.3.8 The unit configuration and capacity of existing and proposed project is given as below:

DIVISION	UNIT	EXISTING UNITS		PROPOSED UNITS		TOTAL UNITS AFTER EXPANSION		REMARKS
		Config uration	Capacity (TPA)	Config uration	Capacity (TPA)	Config uration	Capacity (TPA)	
DRI Division	Sponge Iron Plant	4 x 100 TPD	1,20,000	Nil	38,400	4 x 100 TPD	1,58,400	Increase in working days from 300 to 330 days
		Nil	Nil	6 x 600 TPD	14,25,600	6 x 600 TPD	14,25,600	
SMS Division	SMS -1 (IF Route with CCM)	4 x 8 T	1,05,720	Nil	Nil	Nil	Nil	To be dropped & dismantled
	SMS -2 (IF Route with LRF, VD/VOD, AOD and CCM)	Nil	Nil	10 x 30T	10,05,000	10 x 30T	10,05,000	Working days for proposed unit is 335 days
Rolling Mill Division	Rolling Mill - TMT with RHF	25 TPH	48,000	Nil	Nil	Nil	Nil	To be dropped & dismantled
	Rolling Mill, I- Strip Mill with RHF	Nil	Nil	1000 TPD	3,35,000	1000 TPD	3,35,000	Working days for proposed

DIVISION	UNIT	EXISTING UNITS		PROPOSED UNITS		TOTAL UNITS AFTER EXPANSION		REMARKS
		Configuration	Capacity (TPA)	Configuration	Capacity (TPA)	Configuration	Capacity (TPA)	
	TMT cum Wire Rod Mill with RHF	Nil	Nil	1000 TPD	3,35,000	1000 TPD	3,35,000	unit is 335 days
	Cold Rolling Mill	Nil	Nil	500 TPD	1,67,500	500 TPD	1,67,500	
	Galvalume division with colour coating facility	Nil	Nil	500 TPD	1,60,000	500 TPD	1,60,000	
	Producer Gas Plant for Rolling mill division	Nil	Nil	4 x 4000 Nm ³ /hr.	16,000 Nm ³ /hr.	4 x 4000 Nm ³ /hr.	16,000 Nm ³ /hr.	
	Pellet Division	Pellet Plant with Grinding Facility	Nil	Nil	2 x 2.4 MTPA	4.8 MTPA	2 x 2.4 MTPA	
	Producer Gas Plant	Nil	Nil	34 x 4000 Nm ³ /hr.	1,36,000 Nm ³ /hr.	34 x 4000 Nm ³ /hr.	1,36,000 Nm ³ /hr.	Nil
	PCI Plant	Nil	Nil	2 x 10000 TPM	2,40,000	2 x 10000 TPM	2,40,000	
	CPP Division	WHRB- 4 x 10 TPH	56 TPH	10 MW	Nil	Nil	56 TPH	10 MW
	AFBC Boiler -16 TPH	Nil			Nil			
	WHRB- 6 x 600 DRI	Nil	Nil	420 TPH	105 MW	420 TPH	105 MW	Nil
	CFBC Boiler - 120TPH	Nil	Nil	120 TPH	30 MW	120 TPH	30 MW	Nil
Ferro Alloy Division	Submerged Arc Furnace	1 x 9 MVA SAF	15,600	7 x 9 MVA	Pig iron- 2,14,668/ Fe-Mn- 1,80,611/ Si-Mn- 1,28,640/ Fe-Si 55,640/ HC Fe-Cr- 1,41,504/	8 x 9 MVA	Pig iron- 2,14,668/ Fe-Mn- 1,80,611/ Si-Mn- 1,28,640/ Fe-Si 55,640/ HC Fe-Cr- 1,41,504/	After expansion existing SAF production will be increased by modification from 15,600 TPA to 24,800 TPA

DIVISION	UNIT	EXISTING UNITS		PROPOSED UNITS		TOTAL UNITS AFTER EXPANSION		REMARKS
		Configuration	Capacity (TPA)	Configuration	Capacity (TPA)	Configuration	Capacity (TPA)	
					HC Fe-Cr-1,41,504/Fe-Si-Cr 84,765 TPA		Fe-Si-Cr 84,765 TPA	
	AOD	Nil	Nil	1 x 20 T	66,000	1 x 20 T	66,000	Nil
Others	Jigging Plant	Nil	Nil	500 TPD	1,65,000	500 TPD	1,65,000	Nil
	Briquetting Plant	Nil	Nil	1 x 50 TPH	3,00,000	1 x 50 TPH	3,00,000	Nil
	Sinter Plant	Nil	Nil	1 x 300 TPD	1,00,000	1 x 300 TPD	1,00,000	Nil
	Oxygen Plant	Nil	Nil	1 x 170 TPD	170 TPD	1 x 170 TPD	1 x 170 TPD	Nil
	Railway siding	Nil	Nil	Nil	Nil	Nil	Nil	Nil

50.3.9 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

Division/ Units/ Products	Name of the Raw Materials	Estimated Quantity (TPA)			Source	Distance of the source from the plant site	Mode of Transportation
		As per existing project (TPA)	For proposed expansion (TPA)	Total (TPA)			
Sponge Iron Plant (4 x 100 TPD DRI Kilns)	Iron Ore	2,16,000	69,120	2,85,120	Odisha/ Jharkhand	450/200 Km	Rail
	Coal	1,20,000	38,400	1,58,400	West Bengal	100 Km	Rail
	Dolomite	7,200	2,304	9,504	Imported	500 Km	Rail
Sponge Iron Plant (6 x 600 TPD DRI Kilns)	Iron Ore	Nil	24,07,680	24,07,680	Odisha/ Jharkhand	450/200 Km	Rail
	Coal	Nil	14,25,600	14,25,600	West Bengal	100 Km	Rail
	Dolomite	Nil	85,536	85,536	Imported	500 Km	Ship

Division/ Units/ Products	Name of the Raw Materials	Estimated Quantity (TPA)			Source	Distance of the source from the plant site	Mode of Transport ation
		As per existing project (TPA)	For proposed expansion (TPA)	Total (TPA)			
SMS Division	Sponge Iron	Nil	10,05,000	10,05,000	Internal	Nil	In-house
	Pig Iron	Nil	1,06,916	1,06,916	Internal	Nil	In-house
	Purchased + Return Scrap	Nil	1,05,790	1,05,790	Local Market	100 Km	Purchased &In-house
	Ferro-alloy	Nil	12060	12060	Internal	Nil	In-house
Strip Mill product	MS/SS Slab	Nil	3,50,000	3,50,000	Internal	Nil	In-house
TMT cum Wire Rod Mill	MS/SS Billet	Nil	3,51,000	3,51,000	Internal	Nil	In-house
Cold Rolling Mill	Cold Rolled Coil	Nil	1,70,850	1,70,850	Internal	Nil	In-house
Pellet Plant	Iron Ore Fines	Nil	50,16,393	50,16,393	Odisha/ Jharkhand/ Local Market	450/200/1 00 Km	Rail
	Limestone	Nil	1,91,101	1,91,101	Birmitrapu r, Odisha	400 Km	Rail
	Bentonite	Nil	33,443	33,443	Kutch, Gujarat	1,800 Km	Road
	Coal	Nil	2,44,800	2,44,800	West Bengal	100 Km	Rail
Producer Gas Plant	Coal	Nil	3,76,200	3,76,200	West Bengal	100 Km	Rail
CPP Division	Coal (GCV- 3500 Kcal/Kg)	15,840	1,18,800	1,34,640	West Bengal	100 Km	Rail
	Dolochar (GCV- 1500 Kcal/Kg)	24,000	3,24,480	3,48,480	Internal	Nil	In-house
Briquette Plant	Chrome Ore Fines	Nil	3,24,720	3,24,720	Odisha	450 Km	Rail

Division/ Units/ Products	Name of the Raw Materials	Estimated Quantity (TPA)			Source	Distance of the source from the plant site	Mode of Transport ation
		As per existing project (TPA)	For proposed expansion (TPA)	Total (TPA)			
	Hydrated Lime	Nil	9,900	9,900	Local Market	100 Km	Road
	Molasses	Nil	15,840	15,840	Local Market	100 Km	Road
Sinter Plant	Iron Ore Fines	Nil	70,200	70,200	Odisha/ Jharkhand	450/200 Km	Rail
	Return Sinter	Nil	7,560	7,560	Internal	Nil	In-house
	Coke Breeze	Nil	8,640	8,640	Nil	Nil	Nil
	Limestone	Nil	21,600	21,600	Birmitrapu r, Odisha	400 Km	Rail
	Dolomite	Nil	10,800	10,800	Imported	500 Km	Rail
Ferro Alloys Division	Mn Ore	37,440	3,96,025	4,33,465	Imported/ Domestic	500 Km	Rail
	Coke	8,580	74,255	81,275	Imported/ Domestic	500 Km	Rail
	Charcoal	15,440	39,624	55,064	Local Market	100 Km	Road
	Steam Coal	Nil	47,227	47,227	Local Market	100 Km	Road
	Dolomite	1,560	16,502	18,062	Imported	500 Km	Rail
	Limestone	Nil	18,891	18,891	Birmitrapu r, Odisha	400 Km	Rail
	Quartz	27,170	69,742	96,912	Local Market	100 Km	Road
	Briquettes	Nil	2,68,857	2,68,857	Internal	Nil	In-house
	Chrome Ore (Friable)	Nil	51,925	51,925	Odisha	400 Km	Rail
	Magnesite	Nil	7,075	7,075	Imported	500 Km	Rail
Ferro- chrome chips	Nil	47,469	47,469	Odisha	500 Km	Rail	

Division/ Units/ Products	Name of the Raw Materials	Estimated Quantity (TPA)			Source	Distance of the source from the plant site	Mode of Transport ation
		As per existing project (TPA)	For proposed expansion (TPA)	Total (TPA)			
	Sinter	Nil	2,83,362	2,83,362	Internal	Nil	In-house
	Fe-Mn Slag	14,040	63,144	77,184	Internal	Nil	In-house
	Mill Scale	Nil	60,107	60,107	Internal	Nil	In-house
	Electrode Paste	730	3,508	4,238	Local Market	50 Km	Road

50.3.10 Existing total water requirement for the plant is 2,223 m³/day. The total water requirement after expansion will be 23,113 m³/day which will be sourced from DVC. The company has already obtained an Agreement vide F. No. COML/WS/2006-07/WC-117 dated 07.07.2006 and further renewed on 20.06.2022 with Damodar Valley Corporation (DVC) for the abstraction of up to 1.0 MGD from Damodar River. The company will obtain permission for rest with the implementation of project.

50.3.11 Existing power requirement of 8.9 MW, after expansion, the total power requirement will be 310 MW which will be sourced from Own Captive Power plant (145 MW) & balance 165 MW from WBSEDCL.

50.3.12 Baseline Environmental Studies:

Period	Description
	Summer Season (March to May, 2022)
Ambient Air Quality Monitoring at 09 Locations	<ul style="list-style-type: none"> ○ PM_{2.5} = 24.9 to 48.9 µg/m³ ○ PM₁₀ = 52.1 to 83.4 µg/m³ ○ SO₂ = 5.2 to 14.7 µg/m³ ○ NO_x = 11.8 to 29.3 µg/m³ ○ CO = BDL to 0.98 mg/m³
Incremental GLC level	<ul style="list-style-type: none"> ○ PM₁₀ = 4.39 µg/m³ ○ SO₂ = 1.91 µg/m³ ○ NO₂ = 2.55 µg/m³
Ground Water Sampling at 08 locations	pH: 6.92 to 7.41, Total Hardness – 118.8 to 247.5 mg/l, Chlorides – 24.6 to 142.4 mg/l, Fluorides – 0.20 to 0.58 mg/l
Surface Water Sampling at 04 locations	pH – 6.98 to 7.22, DO – 6.7 to 7.2 mg/l, BOD – 4.1 to 14.0 mg/l, COD – 16 to 44mg/l.
Noise Level Monitoring at 08 locations	During Day Time – 48.2 to 65.9 Leq dB (A) During Night Time - 40.1 to 58.4 Leq dB(A)

Traffic assessment study findings	<ul style="list-style-type: none"> Traffic survey has been conducted at SH-5 which is ~6.0 Km in WNW direction to the plant site. Transportation of both raw and finished materials will be transported by road as well as rail but most of the transportation will be done by rail only. However, in case of unavailability of rakes and uncertain problem, in the worst-case scenario the additional traffic due to the expansion project was calculated <i>considering all the transportation (raw material and finished products) will be done through road only.</i> Existing PCU is 204 PCU/hr on SH 5 and existing level of service (LOS) is: <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr. as per IRC: 64-1990)</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>SH-5</td> <td>204</td> <td>625 (2 lane divided– Two Way)</td> <td>0.326</td> <td>B</td> </tr> </tbody> </table> <ul style="list-style-type: none"> PCU load after expansion project will be 204 (existing) + 31 (additional) PCU/hr and level of service (LOS) will be: <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr. as per IRC: 64-1990)</th> <th>V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>SH-5</td> <td>204+31 =235</td> <td>625</td> <td>0.374</td> <td>B</td> </tr> </tbody> </table> <p><i>*Capacity as per IRC 64-1990 guidelines for capacity of roads</i> Conclusion: The level of service will be “B” after including additional traffic due to proposed project. So, there will not be any change in the LOS.</p>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr. as per IRC: 64-1990)	Existing V/C Ratio	LOS	SH-5	204	625 (2 lane divided– Two Way)	0.326	B	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr. as per IRC: 64-1990)	V/C Ratio	LOS	SH-5	204+31 =235	625	0.374	B
Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr. as per IRC: 64-1990)	Existing V/C Ratio	LOS																	
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Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr. as per IRC: 64-1990)	V/C Ratio	LOS																	
SH-5	204+31 =235	625	0.374	B																	
Flora & Fauna	No Schedule-I species were found within 10 km radius of the study area of the plant site during biological study.																				

50.3.13 The details of solid waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity Generated (TPA)	Mode of treatment & Disposal
1.	Dolochar	DRI	3,48,480	Will be Used in AFBC & CFBC Boiler for power generation.
2.	APC Dust	DRI	5,68,339	Will be sold to bricks and cement manufacturing units/land filling.

S. No.	Type of Waste	Source	Quantity Generated (TPA)	Mode of treatment & Disposal
3.	Fly Ash	AFBC & CFBC	2,17,430	Will be sold to fly ash brick and cement plant manufacturers.
4.	Bottom Ash	AFBC & CFBC	1,04,550	Will be given to the nearby Brick Kilns and for land filling also.
5.	IF Slag	SMS	1,43,883	Recovered metal from slag will be used in SMS and after metal recovery, the slag will be used as aggregates.
6.	AOD Slag	SMS	64,320	After metal recovery, the remaining slag will be used as aggregates.
7.	Bag Filter Dust	SMS	10,050	Shall be used in Sinter Plant/used for land filling.
8.	Scale	CCM	5,025	Will be reused in Induction Furnace
9.	Mill Scale Strip mill & TMT cum Wire Rod Mill	Hot Rolling Mill	5,950	Shall be used for production of Fe-Si or Fe-Si-Cr Or will be used in Sinter Plant.
10.	Reject, Miss Roll & End Cut	Hot Rolling Mill	21,550	Will be used in Induction Furnace
11.	End Cut & Rejects	CRM	3,350	Will be charged in Induction Furnace.
12.	Tarry Wastes	Producer Gas Plant	11,286	Tar sludge from producer gas plant will be separated in Electrostatic tar precipitator, stored in tar tank and sent to authorized chemical manufacturer, rest will be used as fuel in kiln or Will be charged into Coke Oven along with Coal in own sister company unit Bravo

S. No.	Type of Waste	Source	Quantity Generated (TPA)	Mode of treatment & Disposal
				Sponge Iron Pvt. Ltd. in Purulia.
13.	Ash	Producer Gas Plant	1,01,574	Will be given to the nearby Brick Kilns/shall be used in CPP
14.	ESP Dust	Pellet Plant	2,74,287	Will be used in the Sinter Plant or Pellet Plant
15.	PCI Dust	Pellet Plant	4,896	Will be used in the Sinter Plant
16.	Fe-Mn Slag	Ferro-Alloy Plant	1,62,559	Will be used for production of Si-Mn.
17.	Fe-Mn Bag Filter Dust		4,154	Will be used in Ferro Alloys or Sinter Plant.
18.	Si-Mn Slag		1,09,344	Slag is non-hazardous and will be used for construction of roads or filling of low-lying area inside the plant premises.
19.	Si-Mn Bag Filter Dust		739	Will be used in Ferro-alloys or Sinter Plant.
20.	Fe-Cr Slag		1,27,354	Slag shall be further processed in grinding and Metal Recovery Plant and shall be used for construction purpose after TCLP test.
21.	Fe-Cr Dust		4,245	Will be used in Briquette Plant
22.	Fe-Si Slag		2,753	Ferro Silicon Slag will be used for Cement manufacturing/ industries as a raw material & used for medium Carbon Silico Manganese production purpose.
23.	Fe-Si Dust		2,782	Will be used in Briquette Plant.

S. No.	Type of Waste	Source	Quantity Generated (TPA)	Mode of treatment & Disposal
24.	Fe-Cr-Si Slag		4,238	Slag is non-hazardous and will be used in Cement manufacturing industries as a raw material as well as for construction and Road filling material after undergoing TCLP Test.
25.	Fe-Cr-Si Dust		3,391	Will be used in Briquette Plant.
26.	Pig Iron Slag		1,07,334	Pig Iron Slag will be used for cement manufacturing as a raw material.
27.	Briquette Plant Dust	Briquette Plant	15,300	Recycled in Briquetting Plant.
28.	Dust from APC devices	Sinter Plant	3,000	Recycled in Sinter Plant.
29.	Used Oil	Plant machineries	3 KL/ Annum	will be sold to WBPCB authorized re-processors authorized vendors
30.	Jute Containing oil/ cotton waste	Plant machineries	1 TPA	Will be used for Kiln light up and CPP boilers or disposed to CHWTSDF (West Bengal Waste Management Limited)

50.3.14 Public Consultation:

Details of advertisement given	Public hearing Notice published in Newspapers “Sanmarg” in Hindi Language, the national newspaper “The Times of India-Millennium Post” in English Language and “Ajkal” in Bengali language dated 11.11.2022.
Date of Public Consultation	15 th December, 2022 at 12:00 P.M.
Venue	Santuri Panchayat Samity Meeting Hall, PO- Talberiya, PS – Santuri Dist –Purulia, under Santuri Development Block, West Bengal
Presiding Officer	Additional District Magistrate (LR), District: Purulia, Government of West Bengal

Major issues raised	Pollution Control Measures for Air Pollution, Noise Pollution, Local Development, Employment, Waste Water Pollution Mitigation, Plantation, Traffic Control near School and Hospital, Development of Local Schools, Roads & Drinking Water Facility.
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Action plan as per MoEF&CC O.M. dated 30/09/2020

SL No .	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
1	Education	Developmental activities for schools	<p>Development of Primary School of which involves construction of one classroom along with repairing/maintenance of other classrooms,</p> <p>Providing furniture & white boards in all classrooms,</p> <p>Construction of separate toilets for boys & girls,</p> <p>Development of playground in the school</p> <p>Installation of drinking water system (submersible pump and Water Cooler).</p> <p>Plantation surrounding School & Locality</p>	<p>1. Poradiha Sishu Siksha Kendra</p> <p>2. Poradiha Prathamik Bidyalaya</p> <p>3. Beljhupa Prathamik Bidyalaya</p> <p>4. Beljhupa Junior High School</p>	<p>1. Dumdumi Prathamik Bidyalaya</p> <p>2. Chandurdi Prathamik Bidyalaya</p>	<p>1. Balitora Prathamik Bidyalaya</p> <p>2. Balitora High (HS) School</p> <p>3. Jagannath dih Prathamik Bidyalaya</p>	<p>1. Pachanda pur Prathamik Bidyalaya</p> <p>2. Pachanda pur Junior High School</p>	505.0
Budget in Lakhs				185.0	90.0	140.0	90.0	

SL No	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
2	Education	Developmental activities for schools	Construction of Boundary wall (6 schools)	1. Poradiha Sishu Siksha Kendra	1. Chandurdi Prathamik Bidyalaya	1. Balitora Prathamik Bidyalaya	1. Pachanda pur Prathamik Bidyalaya	90.0
				2. Poradiha Prathamik Bidyalaya				
Budget in Lakhs				45.0	15.0	15.0	15.0	
3	Education	Developmental activities for schools	Library			Balitora High (HS) School		20.0
			Budget in Lakhs			20.0		
4	Education	Establishment of Smart School	Establishment of Smart School (upto High School) owned and operated by Company		320	280	200	800.0
5	Education	School Bus	Four buses will run to support School transportation	40	80	0	40	160.0
6	Education	Rural Literacy Mission	This project aims to teach literacy to people between the ages of 15 and 65.	15	15	15	15	60.0
7	Healthcare	Construction of Health Checkup Centre with pathological facility	Construction of Health Check-up Centre at village Poradiha & Chandurdi with arrangement of	At Village Poradiha	At Village Chandurdi	At Village Sunrhi	At Village Beljhupa & Dumdumi	400.0

SL No .	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
			visiting doctor 03 days in a week. Villagers shall be benefitted with free medical assistance and medicines from the centre at primary level treatment.					
			Budget in Lakhs	80.0	80.0	80.0	160.0	
8	Healthcare	Sanitary pad vending machines	Self-service machines that dispense sanitary pads	1.4	0.8	1.0	1.4	4.6
9	Healthcare	Health on Wheels	Ambulance facility for locals fully integrated with emergency facilities like cylinder, nebulizer, stretcher etc. with medicines.	50.0	5.0	45.0	10.0	110.0
10	Rural Infrastructure & Development	Installation of Solar Light	Installation of street solar lights in schools & villages	40 Nos at village Poradiha	40 Nos. at village Chandurdi	20 Nos. At village Sunrhi & 25 Nos. at village Kasthogora Dumdumi , Kapashdanga 10 Nos. in each	20 Nos. at village Balitora & Beljhupa 10 Nos. in each	120
			Budget in Lakhs	20.0	20.0	50.0	30.0	
11	Rural Infrastructure & Development	Public Bus Stand	Construction of One (02) Public Bus Stand with shelter near Poradiha village & Madhikunda Bus Stop at Mudhukunda-	At Village Poradiha	At Madukunda bus stand	--	--	30.0

SL No	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
			Saltora road which will include Platform construction and Installation of Pre-Fabricated Shelter.					
			Budget in Lakhs	15.0	15.0	--	--	
12	Rural Infrastructure & Development	Development of Water Drainage System	Construction of drainage network in the villages for to avoid water logging in the villages	Village Poradiha	Village Shunrhi	Village Chandurdi	Village Kasthoga & Beljhupa	190.0
			Budget in Lakhs	50.0	30.0	40.0	70.0	
13	Rural Infrastructure & Development	Temple	Construction of Temple	Village Poradiha Adivasi Para				40.0
			Budget in Lakhs	40.0				
14	Rural Infrastructure & Development	Temple	Renovation of Temples		Village Chandurdi	Village Shunurhi	Village Beljhupa & Dumdumi & Banshpeta	48.0
			Budget in Lakhs	12.0	12.0	12.0	12.0	
15	Rural Infrastructure & Development	Development of Community Hall	Development of Community Hall	Village Poradiha	Village Chandurdi	Village Shunurhi	Village Beljhupa & Dumdumi & Banshpeta	125.0
			Budget in Lakhs	25.0	25.0	25.0	50.0	
16	Rural Infrastructure & Development	Development of Community Math (for community program)	Development of Community Math shall be done at Adivasi Para & Bengali Para of village Poradiha with 01 room, sitting arrangement	Village Dumdumi & Banspetali	Adivashi Para Poradiha	Bengali Para Poradiha	Village Beljhupa	140.0

SL No.	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
			Mark-2 Hand Pump etc.					
			Budget in Lakhs	50	30.0	30.0	30	
17	Rural Infrastructure & Development	Children Park	Construction of two Children Parks		50.0		50	100.0
18	Rural Infrastructure & Development	Solar power at Children Park	Solar Power & lights installation at Children parks		25		25	50.0
19	Rural Infrastructure & Development	Development of Ponds for Rain Water Harvesting	Renovation/upgradation of village pond will include first time shaping with excavation and slide slope stabilization, Construction of 01 nos. Bathing Ghat on one side with changing area, pair of toilets with septic tank, one hand pump and Beautification of pond by plantation of tress along boundary of pond along with Yearly Cleaning/Desilting of Pond.	Village Poradiha	Village Shunrhi	Village Chandurdi	Village Balitora	250.0
					Village Madhukunda	Village Jagannath di		
				Village Dumdumi	Village Kapashdanga	Village Kasthogora	Village Banshpatali	
			Budget in Lakhs	50.0	75.0	75.0	50.0	
20	Livelihood, Skill Development & Women Empowerment	Skill Development Centre for Women	Construction of women community centre for promotion of self-help groups for women in villages for their	Village Poradiha & Bejhupa	Village Chandurdi & Bashpetali/Dumdumi	Village Shunrhi	Village Jagannath di	255.0

SL No .	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
			skill development.					
			Budget in Lakhs	50.0	110.0	50.0	45.0	
21	Livelihood , Skill Development & Women Empowerment	Samarthya (Women Empowerment)	Women empowerment programs to promote self-efficiency, such as by distribution of sewing machines and training for making cotton hand gloves, sanitary pads etc. in local villages. This will be an earning source for women in villages by their skill development.	Village Poradiha & Bejhupa	Village Chandurdi & Bashpetali/ Dumdumi	Village Shunrhi	Village Jagannat hdih	115.0
			Budget in Lakhs	25.0	40.0	25.0	25.0	
22	Livelihood , Skill Development & Women Empowerment	Skill Development Centre for local youth	Company shall undertake construction of Skill Development Centre for skill development of local youth at Village Panchayat Balitora which will include construction of Building and installation of appropriate devices & Machineries required in the centre		5	85.0	5.0	95.0
23	Livelihood , Skill Development & Women	Skill Development Program	Mass community based programs to promote and enhance skills in rural segments	5	5	5.0	5.0	20.0

SL No.	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
	Empowerment		and support locals.					
24	Environment & Sustainability	Plantation	Plantation shall be done toward nearby villages of the project site and different other locations including schools and roadside plantations as mentioned in the year wise plan in this table.	500 Nos. Around Adivasi and Bengali community ground and Poradiha Play ground	250 Nos. Around Banshpatali Math	200Nos. In front of Bejhupa Junior High School & 300 Nos. Around Chandudi Playgroun d	300 Nos. Around Kastogra High school and around Playgroun d	52.45
				800Nos. Either side of the road connectin g to plant from Madhuku nda Saltora road	500 Nos. Towards village Chandurdi	200 Nos. At village Dandak & 200 Nos. around village Kapashda ng	200 Nos Towards At village Dumdum i	
			Budget in Lakhs	19.5	11.3	13.5	8.2	
25	Environment & Sustainability	Water Sprinkling on roads	Company has already deployed and shall also be deployed 02 nos. water tankers for suppression of dust due to vehicular movement	--	01 Truck mounted water tanker	--	01 Truck mounted water tanker	100.0
				Budget in Lakhs	--	50.0	--	
26	Environment & Sustainability	Truck Mounted Mist Cannon	Company shall purchase 02 nos. truck mounted mist cannon for fugitive dust suppression inside the plant and its surroundings.	--	01 Truck mounted mist cannon	--	01 Truck mounted mist cannon	120.0
				Budget in Lakhs		60.0		

SL No	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
27	Environment & Sustainability	Road Sweeping Machine	Company shall purchase a truck mounted road sweeping machine to reduce fugitive dust emission from roads due to vehicular movements.			01 Road Sweeping Machine	01 Road Sweeping Machine	110.0
			Budget in Lakhs			55	55	
28	Drinking Water, Hygiene & Sanitation	Village Health, Sanitation & Nutrition Program	The purpose is to address health and social issues related to Sanitation and Nutrition at the village level	25.0	25.0	25.0	25.0	100.0
29	Drinking Water, Hygiene & Sanitation	Khushal Gram Vikas Yojana (Rural Cleanliness Program)	The program addresses the cleanliness activities in nearby villages and locality	15.0	12.0	10.0	15.0	52.0
30	Drinking Water, Hygiene & Sanitation	Drinking Water Facility	Installation of Mark-2 Hand Pump	10 Nos. at village Poradiha & 10 Nos. 05 nos. each at village Madhukunda & Jagannathdih	10 Nos. 05 nos. each at village Candurdi & Sunrhi	10 Nos. 05 nos. each at village Belhupa & Kapashdanga	10 Nos. 05 nos. each at village Dumdumi & Banshpeta	60.0
			Budget in Lakhs	24.0	12.0	12.0	12.0	
31	Drinking Water, Hygiene & Sanitation	Water Tanker for supply of drinking water	Company shall arrange 02 nos. water tanker for drinking water supply to local villagers for their community needs.	01 no. water tanker with tractor	--	01 no. water tanker with tractor	01 no. water tanker with tractor	75.0
			Budget in Lakhs	25.0	--	25.0	25.0	

SL No .	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
32	Sports	Development of Playground	Development of Sports Ground	Village Poradiha	Village Banshpatali & Village Dumdumi	Village Beljhupa	Village Chandurdi	125.0
			Budget in Lakhs	25	50	25	25	
33	Sports	Sports Promotion among local youth	Company organize and shall organize Football/Cricket Tournament for local youth	Company shall organize Football/Cricket tournament for the youths of village Poradiha, Chandurdi, Sunrhi, Dumdumi, Beljhupa and other surrounding villages				25.0
			Budget in Lakhs	25.0				
34	Sports	School Sports	Annual School Sports Sponsorship Program	5	5	5	5	20.0
35	Social Inclusion & Community Development	Community Cultural Development Program	Company shall invest for community development programs for the village Poradiha, Pachhandapur for making Community Rasoi & worship temples as demanded by the local people	Community Rasoi & shed at Bengali Para village Poradiha	Community Temple at Adivasi Para Poradiha	Community Rasoi & shed at village Pachhandapur	--	70.0
			Budget in Lakhs	25	20	25	--	
36	Social Inclusion & Community Development	Hope Centre for 'specially abled' children	Construction of infrastructure for various rehabilitation services such as physiotherapy for mobility improvement, special education to mentally challenged children, special education for speech and hearing impaired children, and	30	30	75.0	75.0	210.0

SL No.	Sectors	Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement				Cost (in Lakhs)
				01 st Year	02 nd Year	03 rd Year	4 th Year	
			creating skill upgradation opportunities at village panchayat Balitora					
37	Social Inclusion & Community Development	Burning Ghat	Construction of Burning ghat for all nearby villages		40	40.0	20.0	100.0
38	Social Inclusion & Community Development	Snan Ghat	Construction of Snan Ghats for nearby Villages		20	20.0	15.0	55.0
Budget as per issues raised during public hearing (Rupees in Lakh)								5002
Total (Rupees in Crores)								50

50.3.15 Existing capital cost of project was Rs. 145 Crores. The Capital cost of the proposed project is 3420 Crores and capital cost for environment protection measures is proposed as Rs. 140.0 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 5.80 Crores. The employment generation from the proposed project/expansion is 1,550 (350 Regular & 1,200 Contractual). **The details of cost for environmental protection measures are as follows:**

S. No.	Description	Capital Cost (Crores)			
		Existing		Proposed	
		Capital	Recurring (Per Annum)	Capital	Recurring (Per Annum)
1.	Air Pollution management- ESP, WHRB & bag filters + stack	3.0	0.05	65.0	3.00

S. No	Description	Capital Cost (Crores)			
		Existing		Proposed	
		Capital	Recurring (Per Annum)	Capital	Recurring (Per Annum)
2.	Water pollution management- STP, ETP	–	–	35.0	0.50
3.	Environment monitoring Instruments and Laboratory-Lab Instrument, Online monitoring of air, water, Third party investment for monitoring, Others	1.3	0.02	5.5	0.30
4.	Solid waste management	1.5	0.03	18.5	1.5
5.	Greenbelt & plantation development	1.7	0.07	7.0	0.30
6.	Rain water harvesting	1.2	0.01	9.0	0.20
Total		8.7	0.18	140.0	5.80

50.3.16 Existing green belt has been developed in 5.02 ha area which is about 33 % of the existing plant area of 15.24 ha with total sapling of 11,500 no. of trees and remaining 1,050 no. of trees will be planted in the existing greenbelt area during upcoming monsoon season. Proposed Greenbelt will be developed in 37.98 ha area. Thus, total of 43.0 ha area (more than 33% of total project area, i.e., 129.75 Ha) will be developed as a greenbelt. A 5 m to 10 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 94,950 no. of trees/saplings will be planted and nurtured in 37.98 hectares by the end of 2028.

50.3.17 It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

50.3.18 **Certified Compliance Report from Regional Office SPCB:**

The Status of compliance of CTO was obtained from Asansol Regional Office, West Bengal Pollution Control Board vide Memo no. 273(01)-4A/18/2008(Pt-V), dated 29.03.2023 in the name of M/s. SPS Steels Rolling Mills Limited. All conditions stipulated by the ministry are complied or are in the process of complying.

Written submission by the PP:

50.3.19 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 13.12.2023 through email dated 13.12.2023 submitted the following information:

S. No.	Additional Details required	Reply submitted by PP
1.	The status of land required for the proposed expansion project with supporting documents to be submitted.	The existing plant area is 15.24 Ha; additional area required for expansion is 114.51 Ha, hence after expansion, the total plant area will be 129.75 ha. Out of total plant area, 26.67 Ha land is under the possession of the company (Deed of the same is submitted). For 32.03 Ha land, LTS (Long Term Settlement) was applied to the Govt. of West Bengal and subsequently, 31.50 Ha has been recommended by the Office of the District Magistrate, Purulia, Govt. of West Bengal vide Memo No. 01/Industry dated 03.03.2023 (Letter copy submitted) and for 71.58 Ha land, consents (Agreement for Purchase) have been taken from the land owners (Copy of the Purchase agreement submitted).
2.	NOC regarding the project site not falling in the flood zone of Damodar River to be submitted.	Company has obtained letter from Executive Engineer, Purulia Construction Division (Irrigation), Irrigation & Waterways Directorate, Govt of West Bengal vide memo no. 1140/PCD/F(C/D)1 dated 12.12. 2023 stating that “there was no report of flood occurred during last 25 years in the adjacent area of SPS Steel Rolling Mills Ltd. located at PO Pachhandapur, Block Santurim Dist. Purulia (West Bengal). Copy submitted.
3.	Submit the status of water permission for the existing as well as proposed expansion project along with supporting documents.	The existing water requirement for the project is 2,223 KLD sourced from Damodar River. The company has already obtained an Agreement vide F. No. COML/WS/2006-07/WC-117 dated 07.07.2006 with Damodar Valley Corporation (DVC) for the abstraction of upto 1.0 MGD (4546 KLD) from Damodar River (Copy of the same submitted). Total fresh water requirement after expansion will be 15560 KLD, which will be sourced from Damodar River. The company has already applied for supply of additional water i.e. 4.08 MGD (18548 KLD) to Damodar Valley Corporation

S. No.	Additional Details required	Reply submitted by PP
		(DVC) vide letter no. SPS-2/2023-24/ DVC/ Water/01 dated 25.09.2023. The same is under process with the dept. Copy of the receipt is submitted. Please note that after the reconsideration of the water balance, the fresh water requirement after the proposed expansion has been reduced from 23,113 KLD (as given in the EIA Report) to 15560 KLD. Revised water balance is submitted.
4.	Revised Action Plan for socio economic developmental activities to address the issues raised during Public Hearing to be submitted.	The PP has revised the budget of socio-economic developmental activities to address the issues raised during public hearing from 14.05 Crores to 50 Crores (1.5 % of the total project cost) to be spent within 4 years. Revised socio-economic developmental activities plan is submitted.
5.	Greenbelt area should be developed around the schools in the nearby villages.	The undertaking given by SPS Steel Rolling Mills Limited for developing greenbelt around the schools existing within 1 km radius of the project site has been submitted. An amount of 80 lacs has been earmarked for plantation by the company in nearby villages.
6.	Isopleth of CO emission from the proposed project has to be submitted.	Maximum Incremental GLC for CO has been calculated for the expansion project as 0.779 µg/m ³ . Isopleth showing the max. incremental GLC of CO has been submitted.
7.	Undertaking from PP for monitoring soil around the project site to be submitted.	The undertaking has been given by SPS Steel Rolling Mills Limited for carrying out the periodical monitoring of soil quality in nearby villages (within 1 km radius of the project site) as a part of post project compliance monitoring work. The same has been submitted.
8.	Revised Brief write up to be submitted	The revised brief write up as per agenda as per the above details has been submitted.

Deliberations by the Committee

50.3.20 The Committee noted the following:

1. The instant proposal for an expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW – WHRB, AFBC & CFBC boiler), Ferro Alloy (1 x 9 MVA to 8 x 9 MVA), along with new installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2 x 2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding.

2. The existing project was accorded Consent to Establish/NOC before the EIA Notification, 2006. The name change for Consent to Establish was obtained vide NOC No. 158944, Memo No. 19-WPBA/NOC/Red(428)/(PrI)/2021 dated 11.01.2022. Consent to Operate for Air and Water has been obtained for 10,000 TPM Sponge Iron Plant and Captive power generation of 10 MW vide Consent Letter No. CO131828, Memo No. 217-WPBA/Red (PrI)/Cont (114)/03 dated 25.03.2022 & Consent to Operate for Air and Water obtained from West Bengal Pollution Control Board for Ferro Manganese/Silico Manganese/Ferro Silicon off 1300 ton/month capacity vide Consent Letter No. CO134634, Memo No. 59 C-WPCB/Red/PrI/Cont/114/03 dated 30.01.2023. The validity of both CTOs is up to 28.02.2027. Based on the information provided by the PP, the EAC confirmed that EC was not required for the existing project.
3. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
4. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
5. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
6. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
7. Total land envisaged for the proposed expansion project is 129.42 ha [Existing land area: 15.24 ha + Additional land area: 114.51 ha]. Out of total plant area, 26.67 Ha land is under the possession of the company. For 32.03 Ha land, LTS (Long Term Settlement) was applied to the Govt. of West Bengal and subsequently, 31.50 Ha has been recommended by the Office of the District Magistrate, Purulia, Govt. of West Bengal vide Memo No. 01/Industry dated 03.03.2023 and for 71.58 Ha land, consents (Agreement for Purchase) have been taken from the land owners. The EAC is of the view that complete land acquisition and conversion for industrial purpose shall be completed prior to commencement of proposed project.
8. There is dense habitation along with other sensitive areas within the study area of the project site. The EAC is of the opinion that PP shall prepare and strictly implement the environmental safeguard measures to minimise the impact on the habitation of the locals.

9. There is a seasonal nala inside the plant premises and a stream is flowing adjacent to the plant. Damodar River is at a distance of 1 km with other water bodies near the project site within the study area. Company has obtained letter from Executive Engineer, Purulia Construction Division (Irrigation), Irrigation & Waterways Directorate, Govt of West Bengal vide memo no. 1140/PCD/F(C/D)1 dated 12.12. 2023 stating that “there was no report of flood occurred during last 25 years in the adjacent area of SPS Steel Rolling Mills Ltd. located at PO Pachhandapur, Block Santurim Dist. Purulia (West Bengal). The EAC is of the opinion that the water body shall not be disturbed. Mitigation measures w.r.t. safeguarding the water body shall be prepared and submitted.
10. Total fresh water requirement after expansion will be 15560 KLD, which will be sourced from Damodar River. The company has already applied for supply of additional water i.e. 4.08 MGD (18548 KLD) to Damodar Valley Corporation (DVC) vide letter no. SPS-2/2023-24/ DVC/ Water/01 dated 25.09.2023. The same is under process with the department. The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority in this regard.
11. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and is of the opinion that stringent mitigation measures to minimise the pollution shall be prepared and strictly implemented.
12. The PP has submitted that the existing green belt has been developed in 5.02 ha area which is about 33 % of the existing plant area of 15.24 ha with total sapling of 11,500 no. of trees and remaining 1,050 no. of trees will be planted in the existing greenbelt area during upcoming monsoon season. Proposed Greenbelt will be developed in 37.98 ha area. Thus, total of 43.0 ha area (more than 33% of total project area, i.e., 129.75 Ha) will be developed as a greenbelt. Total no. of 94, 950 no. of trees/saplings will be planted and nurtured in 37.98 hectares by the end of 2028. PP has submitted an undertaking for developing greenbelt around the schools existing within 1 km radius of the project site. An amount of 80 lacs has been earmarked for plantation by the company in nearby villages. The EAC deliberated on the greenbelt layout plan along with action plan and the budget earmarked and is of the opinion that greenbelt shall be completed within a period of 2 years.
13. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
14. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
15. The EAC deliberated on the certified compliance report of IRO along with ATR submitted to IRO and found it satisfactory.
16. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
17. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly

made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

18. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
19. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

- 50.3.21 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading the written submission on portal** under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. PP shall complete the land acquisition of the proposed project area and conversion for industrial purpose prior to commencement of proposed project.
- v. There is dense habitation along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all

around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.

- vi. There is a seasonal nala inside the plant premises and a stream is flowing adjacent to the plant. Damodar River is at a distance of 1 km with other water bodies near the project site within the study area. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- vii. Total water requirement after proposed expansion of 15560 KLD shall be sourced from Damodar River. PP shall obtain necessary permission from the Competent Authority in this regard.
- viii. Three tier Green Belt shall be developed in at least 33% of the project area in a period of two years all along the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas such as schools and villages nearby project site as committed. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- ix. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 50 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- x. PP shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.
- xi. PP shall carry out the periodical monitoring of soil quality in nearby villages as a part of post project compliance monitoring work.

B. General Conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these

- systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
 - iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
 - iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
 - v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
 - vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
 - vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
 - viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
 - ix. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
 - x. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
 - xi. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
 - xii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
 - xiii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
 - xiv. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
 - xv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
 - xvi. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.

- xvii. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xviii. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- xix. Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
- xx. The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
- xxi. The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
- xxii. Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.
- xxiii. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
- xxiv. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
- xxv. Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance report.
- xxvi. Low NO_x Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.

- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
- x. Air Cooled condensers shall be used in the captive power plant.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- iii. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

V. Energy Conservation measures

- i. Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
- ii. Restrict Gas flaring to < 1%.
- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- iv. Provide LED lights in their offices and residential areas.
- v. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- vi. Practice hot charging of slabs and billets/blooms as far as possible.
- vii. Ensure installation of regenerative type burners on all reheating furnaces.
- viii. The project proponent shall provide waste heat recovery system on the DRI Kilns.
- ix. The dolochar generated shall be used for power generation.
- x. Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.

- xi. The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- vi. Solid waste utilization
 - a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
 - c. Used refractories shall be recycled as far as possible.
- vii. SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.
- viii. Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
- ix. Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. 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 and 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 monitor able with defined time frames.

- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. 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 as committed.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which

one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
- xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Consideration of Terms of Reference Proposals

Agenda No. 50.4

50.4 Proposed Cement Grinding Unit (OPC)/PPC/PSC - 1.98 MTPA) by M/s Vasuki Cement Private Limited, located at survey No. 133, 131, Part of 155 paiky 1 paiky 1 of Village: Varshamedi, Ta: Maliya (Miyana) Dist: Morbi, Gujarat–Consideration of TOR.

[Proposal No. IA/GJ/IND1/451017/2023, File No. IA-J-11011/390/2023-IA-II(IND-I)]
[Consultant: Envirocare Technocrats Pvt. Ltd; Valid upto: 31.05.2026]

50.4.1 M/s. Vasuki Cement Private Limited has made an application online vide proposal no. IA/GJ/IND1/451017/2023 dated 21.11.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(b) Cement Plants under Category “B” of the schedule of the EIA Notification, 2006 and attracts general condition due to Project Site located nearest to Eco-Sensitive Zone of Wild Ass Sanctuary and therefore being appraised at Central Level.

50.4.2 Name of the EIA consultant: M/s. Envirocare Technocrats Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2326/RA 0305; valid upto 31.05.2026, as on December 5, 2023].

Details submitted by Project proponent

50.4.3 The project of M/s. Vasuki Cement Private Limited located in Survey No. 133, 131, Part of 155 paiky 1 paiky 1, Varshamedi Village, Maliya Tehsil, Morbi District, Gujarat is for setting up of a new Cement Grinding Plant for production of 1.98 Million Tons Per Annum (MTPA).

50.4.4 The proposal was considered during the 50th meeting of the EAC for Industry-I sector held on 13th – 15th December, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

50.4.5 The Committee noted the following:

1. The EAC noted that SPCB during its site visit to the unit on 04.03.2023 observed violation of environmental regulations. Accordingly, SPCB issued a direction to submit written explanation/ clarification on the following:

- 1) At the time of visit, Construction work was going on without the EC/CTE. PP was suggested to stop the construction work with immediate effect.
- 2) Clarification of provision of CRZ for the Unit.
- 3) Unit has to strictly follow EIA Notification, 2006 and its time to time Amendment

PP has reported the violation has taken place and further submitted the following information:

- Only 5% (0.17098 ha) of the Total land area (3.2582 ha) for storage of raw material was constructed till March – 2023
- GPCB file the court case vide no. 499/23 against M/s. Vasuki Cement Private Limited
- Accused M/s. Vasuki Cement Private convicted under section -246(2) of the code according to clause – 15, 16 & 19 of the Environmental Protection Act.
- The accused punished to pay fine against the charge and in case failure to pay the fine, accused are ordered to undergo simple imprisonment for 90 days
- M/s. Vasuki Cement Private Limited has deposit the fine to court on 9/9/2023. The court case was dismiss.

The EAC confirmed that this is a case of violation and needs to be appraised as per the Ministry's SOP dated 07.07.2021. In this regard, the EAC advised PP/Consultant to submit the compliance to the Ministry's SOP dated 07.07.2021.

2. The EAC observed that, out of the total proposed land area of 3.2482 hectares, the company has not yet acquired possession of 0.48 hectares. Despite this, construction work has commenced. The Project Proponent (PP) is required to clarify whether the construction already undertaken also encompasses this 0.48 hectare area to verify whether there is violation of land also in the instant project.
3. The EAC took into consideration kml file on the Google Earth presented by the project proponent along with DSS of the project site shown on PARIVESH and observed that there is a habitation namely Village Varshamedi at a distance of 0.86 km in NNE. PP is required to submit a robust action plan aimed at minimizing the impact of project activities on these sensitive areas.
4. It is reported that ESZ of Wild Ass Sanctuary is at distance of 3.8 km from the project site. PP shall submit the certificate from the Competent Authority certifying the distance of Sanctuary and its ESZ along with the authenticated map. The certificate shall also carry the geographical coordinates of the project site boundary.

5. The EAC noted that Varshamedi Pond is at a distance of 0.38 km in NNE and Phulku Nadi at a distance of 0.39 km in ESE direction of the project site. PP shall submit the HFL data of the river. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be provided.
6. The EAC noted that the water requirement for the proposed project is estimated as 63 m³/day, out of which 53 m³/day of fresh water requirement is proposed to be obtained from the Bore well (Ground water). The EAC opined that PP shall explore the possibility for alternate source of water to meet its requirement and to reduce its dependency on ground water.
7. The EAC advised PP/Consultant to represent the case again with revised proposal presentation. In view of the same, the EAC opined that PP needs to update the PFR Report with all the desired details and shall submit the revised PFR report for consideration of the proposal.
8. The EAC agreed to the request of PP/Consultant and allowed them to reappear after the revision of the application incorporating the desired information.

Recommendations of the Committee:

- 50.4.6 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** to address the shortcomings enumerated at para no. 50.4.5 above. The proposal may be considered after submission of the requisite information.

Agenda No. 50.5

- 50.5 Stainless Steel Flanges and Stub Ends Manufacturing Unit (Regularizing of Existing Unit) with Existing production capacity 1400 MT/Month by M/s Chandan Steel Ltd. (UNIT-5), located at At Survey No: 102/2, 84, 86, 2191, 2192, 2194/P1, Village: Dehri, Tal: Umbergaon, Dist: Valsad Gujarat –Consideration of TOR as per provisions of Ministry’s Notification dated 20.07.2022 [Rolling Mills]**

**[Proposal No. IA/GJ/IND1/436813/2023, File No. IA-J-11011/271/2023-IA-II(IND-I)]
[Consultant: Eco Chem Sales & Services; Valid upto: 15.03.2026]**

- 50.5.1 M/s. Chandan Steel Limited (Unit-5) has made an application online vide proposal no. IA/GJ/IND1/436813/2023 dated 04.10.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) and attracts general condition due to the Gujarat-Maharashtra interstate boundary is within a 5 km radius from the project site boundary under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

50.5.2 Name of the EIA consultant: M/s. Eco Chem Sales & Services [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2326/RA 0292; valid upto 15.03.2026, as on December 5, 2023].

Details submitted by Project proponent

50.5.3 The project of M/s. Chandan Steel Ltd. (UNIT-5), located at At Survey No: 102/2, 84, 86, 2191, 2192, 2194/P1, Village: Dehri, Tal: Umbergaon, Dist: Valsad Gujarat is for regularizing of existing Stainless Steel Flanges and Stub Ends Manufacturing Unit with Existing production capacity 1400 MT/Month.

50.5.4 Environmental site settings:

Sl. No.	Particulars	Details	Remarks		
i.	Total land	6.5606 ha [Private Land]	Land Use: Industrial Land		
ii.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Land is already acquired and land is in the name of M/s. Chandan Steel Limited.	--		
iii.	Existence of habitation & involvement of R&R, if any.	Project Site: The unit is located in Dehri Village of Umbergaon Taluka. The unit is existing and under operation. No habitation exists in plant site; Hence no R & R is involved. Study Area: Umargam Town – 0.92 km	R & R not required.		
iv.	Latitude and Longitude of all corners of the project site.	Point	--		
		Latitude			
		Longitude			
		A		20°9'37.75"N	72°46'0.11"E
		B		20°9'34.74"N	72°46'8.43"E
		C		20°9'35.72"N	72°46'8.76"E
		D		20°9'33.40"N	72°46'15.20"E
		E		20°9'29.93"N	72°46'14.06"E
		F		20°9'29.42"N	72°46'12.54"E
G	20°9'29.62"N	72°46'6.79"E			
H	20°9'32.02"N	72°45'59.13"E			
I	20°9'35.38"N	72°46'0.06"E			
v.	Elevation of the project site	34 to 43 m above mean sea level	--		
vi.	Involvement of Forest land if any	No project does not involved forest land.	--		
vii.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage,	Project Site: None Study Area:	--		

Sl. No.	Particulars	Details			Remarks
		Water Body	Distance	Direction	
	Canal etc.) exists within the project site as well as study area	Tumb River	4.36	E	
		Natural Nallah	1.65	S	
		Dehri Lake	0.51	SSW	
		Pond Near Solsumba	2.41	NEE	
viii.	Existence of ESZ / ESA / National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve etc. if any within the study area	Nil List of Reserved and protected forests: 1. Reserved Forest, Sanjan Range – 1.21 km in SEE and 2.47 km in NWW 2. Reserved Forest, Bordi Range – 3.41 km in SE, 5.29 km in S and 6.06 km in E			--

50.5.5 The existing project was accorded Consent to Establish vide Ir. no. GPCB/CE/NOC/VSD-3132 (CCA-VSD-1025)/30356 dated 27/10/2008. Earlier EC was not applicable for re-rolling and re-heating furnace mills. As per the Hon'ble NGT Order of 55/2019 (WZ) dated 12/02/2020 regarding Post Facto Clearance for Steel Re-Rolling Mills, Environment Clearance is applicable for the existing project activity and as per the amended EIA Notification-2006 and MoEFCC Notification number S.O. 3250(E) dated 20.07.2022, project activity is covered under Schedule-3 (a) as per the EIA Notification. Consent to Operate for the existing unit was accorded by Gujarat State Pollution Control Board vide Ir. no. GPCB/CCA-SRG-356/ID: 31943/523996, dated: 18/09/2019 and CCA amendment accorded by Gujarat State Pollution Control Board vide Ir. no. GPCB/CCA-SRG-356(2)/ID: 31943/747762 dated: 17/07/2023. The validity of CTO is up to 27/08/2025.

50.5.6 Implementation status of the existing CTE:

Particulars	Document No.	Date	Validity	Implementation Status
Details of consents	CTE-30356	27.10.2008	26.10.2013	Setting up of an industrial plant with supporting facilities
	CTE-52782	20.03.2013	09.01.2017	Production capacity increment: 300 MT/Month to 1400 MT/Month.
	CTE-124926	12.10.2019	22.02.2023	For the addition of New Survey Number i.e. Survey No. 84, 86, 2191, 2192, 2194/P1

50.5.7 The unit configuration and capacity of existing project is given as below:

Sl. No.	Existing Facility as per Valid CTO dated: 18/09/2019 & CTO Amendment dated: 17/07/2023			
	Configuration		Capacity	Total Capacity
1	Production Plant (Stainless Steel Flanges & Stub Ends)	Plant-1 (Furnace Process Area)	3993.00 Sq. Meter	3993.00 Sq. Meter
		Plant-2 (Lathe Machine Area) (Cutting / Pilling Area)	3462.00 Sq. Meter	3462.00 Sq. Meter
		Plant-3 (CNC / VNC Area) (Finishing of Material Area)	2590.00 Sq. Meter	2590.00 Sq. Meter
2	Raw Material Storage Area		3248.00 Sq. Meter	--
3	Product Storage Area		3140.00 Sq. Meter	--
4	Re-Heating Furnaces		5 Nos. x 2.00 TPH 4 Nos. x 0.60 TPH 1 No. x 0.80 TPH	13.20 TPH
5	Annealing Furnace		2 Nos.	1050 °C
6	Heating Furnace		1 No. x 3 TPH	3 TPH

50.5.8 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

Sr. No.	Raw Material	Quantity	Source	Distance from Site (Kms)	Mode of Transport
1.	Stainless Steel Billets, Ingots & Round Cornered Square (RCS) Bars	2500.00 MT/Month	Chandan Steel Ltd. SMS Division Plot No. 32, 33B, 35, 36, GIDC Umbergaon, Taluka: Umbergaon, Dist: Valsad	2.00	Through Truck

50.5.9 Existing Water requirement is 12.20 m³/day which is obtained from Tanker Water / Borewell. Due to development of additional greenbelt area within the premises, 19.00 KLD water requirement shall be increased. Hence, total water requirement for the project is estimated as 31.20 m³/day, out of which 20.80 m³/day of fresh water requirement will be obtained from the Tanker Water / Borewell and the remaining requirement of 10.40 m³/day will be met from the retreated water from STP and ETP. The unit has applied for the permission for drawl of groundwater to CGWA vide Application No. 21-4/11117/GJ/IND/2023, Dated: 24/08/2023.

50.5.10 Existing power requirement of 2.50 MW is obtained from DGVCL, Gujarat.

50.5.11 The capital cost of the project is Rs. 118.417 Crores and the capital cost for environmental protection measures is Rs. 2.08 Crores. The employment generated from the project is 455 nos.

50.5.12 It is reported that a SCN received to the unit vide SCN No. 608421, Dated: 09/12/2021 (Air Act) and pointwise reply submitted by the unit. The SCN was issued for not providing SMF to stack no. 1 & 3 attached to reheating furnace. SCN was issued to the unit in line with the inspection carried out at the unit dated: 05/07/2021. Immediate action was taken and SMF was installed. After that the reply of SMF installation along with photographs was submitted to GPCB on 17/07/2021 for closing the SCN. The online inspection report for compliance of the same is submitted. After replying to the SCN, GPCB had issued CTO on 17/07/2023 which is valid up to 27/08/2025. Hence, the SCN is considered closed.

50.5.13 Proposed Terms of Reference: [Baseline data collection period: March 2023 to May 2023]

Attributes	Parameters	Sampling		Remarks
		No. of Stations	Frequency	
A. Air				
a. Meteorological Parameters	Temperature, Wind Speed, Relative Humidity, Solar Radiation	01 Location	Throughout Study Period	--
b. AAQ Parameters	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ CO	05 Parameters	Twice in a Week	At 08 Locations (06 Core Zone + 02 Buffer Zone)
B. Noise	Day Equivalent Night Equivalent	12 Locations	Once during Baseline Monitoring Period	11 Core Zone + 01 Buffer Zone
C. Water				
Surface Water Quality Parameters	Physical, Chemical and Bacteriological Parameters	33 Parameters	Once during Baseline Monitoring Period	8 Locations
Ground Water Quality Parameters	Physical, Chemical and Bacteriological	26 Parameters	Once during Baseline Monitoring Period	8 Locations

Attributes	Parameters	Sampling		Remarks
		No. of Stations	Frequency	
	Parameters			
D. Land				
a. Soil Quality	Water Holding Capacity, Texture, Porosity, SAR, CEC, pH, Ca, Mg, Na, K, Zn, Mn etc.	8 Locations	Once during Baseline Monitoring Period	22 Parameters
b. Land Use	LU map of the Study Area	Study Area	--	--
E. Biological				
a. Aquatic	--	31 Parameters	Once during Baseline Monitoring Period	1 Location
b. Terrestrial	--	Within Study Area	Once during Baseline Monitoring Period	--
F. Socio-Economic Parameters	--	Villages within Study Area	Once during Baseline Monitoring Period	--

Written submission by the PP:

50.5.14 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 13.12.2023 through email dated 13.12.2023 submitted the following information:

Sl. No.	Details sought	Reply by PP
1.	To complete tree plantation activity in the additional greenbelt area in 1 year instead of the proposed 2 years.	PP hereby ensures that they will complete the tree plantation activities in the additional greenbelt area within the first year after the grant of ToR.
2.	SCN has been issued to the unit vide SCN No. 608421, Dated: 09/12/2021 (Air Act). PP shall submit the details along with the point-wise reply before EAC	<ul style="list-style-type: none"> The SCN was issued for not providing SMF to stack no. 1 & 3 attached to reheating furnace. The SCN was issued to the unit in line with the inspection carried out at the unit dated: 05/07/2021. Immediate action was taken and SMF was installed. After that the reply of SMF installation along with photographs was

Sl. No.	Details sought	Reply by PP
		<p>submitted to GPCB on 17/07/2021 for closing the SCN. The online inspection report for compliance of the same is submitted.</p> <ul style="list-style-type: none"> • After replying to the SCN, GPCB had issued CTO on 17/07/2023 which is valid up to 27/08/2025. Hence, the SCN is considered closed.

Deliberation by the Committee

50.5.15 The Committee noted the following:

- i. The instant proposal is for regularizing of existing Stainless Steel Flanges and Stub Ends Manufacturing Unit with Existing production capacity 1400 MT/Month as per the Ministry's Notification dated 20.07.2022 [Rolling Mills].
- ii. The existing project was accorded Consent to Establish vide Ir. no. GPCB/CE/NOC/VSD-3132 (CCA-VSD-1025)/30356 dated 27/10/2008. Earlier EC was not applicable for re-rolling and re-heating furnace mills. As per the Hon'ble NGT Order of 55/2019 (WZ) dated 12/02/2020 regarding Post Facto Clearance for Steel Re-Rolling Mills, Environment Clearance is applicable for the existing project activity and as per the amended EIA Notification-2006 and MoEFCC Notification number S.O. 3250(E) dated 20.07.2022, project activity is covered under Schedule-3 (a) as per the EIA Notification. Consent to Operate for the existing unit was accorded by Gujarat State Pollution Control Board vide Ir. no. GPCB/CCA-SRG-356/ID: 31943/523996, dated: 18/09/2019 and CCA amendment accorded by Gujarat State Pollution Control Board vide Ir. no. GPCB/CCA-SRG-356(2)/ID: 31943/747762 dated: 17/07/2023. The validity of CTO is up to 27/08/2025.
- iii. The EAC took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
- iv. PP submitted that total land is 6.5606 ha [Private Land]. Land is already acquired and converted for industrial use.
- v. Umbergaon Town is at a distance of 0.92 km from the project site along with other sensitive areas exists within the study area of the project site. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact due to the project activities on these sensitive areas.
- vi. Dehri Lake is at a distance of 0.51 km in SSW and Natural Nallah at 1.65 km in South of the project site. The EAC is of the opinion that PP shall prepare a plan for conservation of the water bodies.
- vii. The water requirement for the proposed project is estimated as 31.20 m³/day, out of which 20.80 m³/day of fresh water requirement will be obtained from the Tanker Water / Borewell and the remaining requirement of 10.40 m³/day will be met from the retreated

water from STP and ETP. The EAC deliberated on the water requirement and found it satisfactory.

- viii. The PP reported that a SCN was received to the unit vide SCN No. 608421, Dated: 09/12/2021 (Air Act). The SCN was issued for not providing SMF to stack no. 1 & 3 attached to reheating furnace. SCN was issued to the unit in line with the inspection carried out at the unit dated: 05/07/2021. Immediate action was taken and SMF was installed. After that the reply of SMF installation along with photographs was submitted to GPCB on 17/07/2021 for closing the SCN. The online inspection report for compliance of the same is submitted. After replying to the SCN, GPCB had issued CTO on 17/07/2023 which is valid up to 27/08/2025. Hence, the SCN is considered closed.
- ix. The EAC also deliberated on the submitted written representation of project proponent pertaining to greenbelt development and found it satisfactory.

Recommendations of the Committee

50.5.16 After deliberations, the Committee **recommended** the project proposal **subject to uploading the written submission on portal** for prescribing following specific ToRs for undertaking detailed EIA and EMP study alongwith Public Hearing in addition to the generic ToRs enclosed at **Annexure-1** read with additional ToRs at **Annexure-2**:

- (i) Umbergaon Town is at a distance of 0.92 km from the project site along with other sensitive areas exists within the study area of the project site. Proponent shall prepare appropriate environmental safeguard measures to minimise the impact due to the project activities on these sensitive areas. PP needs to plan to strengthen green belt all around the plant area to reduce the dust pollution.
- (ii) Dehri Lake is at a distance of 0.51 km in SSW and Natural Nallah at 1.65 km in South of the project site. PP shall prepare a plan for conservation of the lake and other water bodies submit the same with the EIA/EMP Report.
- (iii) Water requirement of 31.20 m³/day, out of which 20.80 m³/day of fresh water requirement will be obtained from the Tanker Water / Borewell and the remaining requirement of 10.40 m³/day will be met from the retreated water from STP and ETP. PP shall obtain necessary permissions from the Competent Authority. PP shall also explore the possibility to shift to alternate source of water to reduce the dependency on ground water.
- (iv) The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the E.I.A., wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc.
- (v) PP shall complete the tree plantation activities in the additional greenbelt area within the first year after the grant of ToR as committed.

Agenda No. 50.6

50.6 Expansion of Ferro Alloys Production Unit at P.H. No. 0028, Plot No. 557,559,563 and 564, Urla Industrial Area, District- Raipur, Chhattisgarh by M/s Hira Power & Steels Ltd. – Consideration of TOR proposal

[Proposal No. IA/CG/IND1/449872/2023; File No. IA-J-11011/419/2023-IA-II(IND-I)]
[Consultant: M/s Shree Green Consultants; Valid upto : 24.02.2024]

50.6.1 M/s Hira Power & Steel Limited has made an online application vide proposal no IA/CG/IND1/449872/2023 dated 21.11.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

50.6.2 Name of the EIA consultant: M/s. Shree Green Consultants [List of ACOs with their Certificate / Extension Letter No: NABET/EIA/2124/IA0072; valid till 24.02.2024, as on December 5, 2023].

Details submitted by Project proponent

50.6.3 The project of M/s Hira Power & Steel Ltd located at P.H. No. 0028, Plot No. 557, 559, 563 and 564, Urla Industrial Area, District- Raipur, Chhattisgarh is for expansion of Ferro Alloys Production Unit from 9,000 MT/Year to 18,000 MT/Year.

50.6.4 Environmental site settings:

S. No.	Particulars	Details submitted by PP	Remarks			
1	Total Land	12919.806 Sqm	Land Use: Industrial			
2	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Land already acquired				
3	Existence of habitation & involvement of R&R, if any.	Project Site: Land has been taken on Lease from Chhattisgarh State Industrial Development Corporation (CSIDC) Raipur by Hira Power and Steel Ld. Land is under possession of HPSL. Study Area: <table border="1"><thead><tr><th>Habitation</th><th>Distance</th><th>Direction</th></tr></thead></table>	Habitation	Distance	Direction	
Habitation	Distance	Direction				

S. No.	Particulars	Details submitted by PP			Remarks
		Urla	0.12 Km	W	
		Rawabhata	1 Km	E	
		Sarora	2.1 Km	S	
4	Latitude and Longitude of all four corners of the project site	Point	Latitude	Longitude	
		Point	Latitude	Longitude	
		P-1	21°18'45.65"N	81°36'46.02"E	
		P-2	21°18'44.11"N	81°36'49.33"E	
		P-3	21°18'40.54"N	81°36'47.60"E	
5	Elevation of the project site	309-310 m above mean sea level			
6	Involvement of Forest land if any.	Not Applicable			
7	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project	<u>Project Site:</u> None			
		<u>Study Area:</u>			
		Water Body	Distance (Km)	Direction	
		Kharun River	3.7	NW	
8	Existence of ESZ/ESA/national Park/Wildlife Sanctuary /biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	Nil			

50.6.5 PP has reported that this facility was established in 1988 by M/s Jain Carbide & Chemicals Pvt. Ltd (now known as Hira Power & Steels Limited (Unit-I)) with prior approval from the pollution control board, vide letter no. 614/R.O/PNM/Raipur/88 21.03.1988. Subsequently, the company's name was changed to Hira Power & Steels Limited, and a fresh consent under the new name was obtained from the pollution control board, as per letter no. 08&09/RO/TS/CECB/2009 dated 03.01.2009. On November 30, 2015, the company ceased operations due to structural issues and the furnace reaching the end of its operational life. Following this, several modifications were made to the plant to bring it back into production-ready condition, and renewal of consent to operate was obtained from the Pollution Control Board, vide letter no. 5093/RO/TS/CECB/2021 dated 08.03.2021. Now, unit is operating on same production capacity since year 1988 and has valid consent to operate issued by pollution control board vide letter no.

2664/RO/TS/CECB/2023 dated 06.09.2023 valid upto 31.10.2026 for Ferro alloys production (3,000 MT/Year/Shift or 9,000 MT/Year).

50.6.6 The unit configuration and capacity of existing and proposed project is given as below:

Particular	No. of Furnaces	Product (MTPA)		Total Quantity
		Fe-Mn	Si-Mn	
Existing (As per CTO)	01	9000	Nil	9000
		3000	6000	9000
		9000		9000
After Expansion	01	18000	Nil	18000
		6000	12000	18000
		18000		18000

Note: Both products will be manufactured in the combination as mentioned above subject to approved quantity and pollution load.

50.6.7 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

Sr. No	Product	Existing (MTPA)	After Expansion (MTPA)	Source	Max. Road travelled Distance (Km)	Mode of Transportation
Ferro Manganese or Silico Manganese						
1	Manganese Ore	20,025	40,050	Import & Indigenous (Krishnaping Alloys Limited (Mp) & Chhattisgarh Steel & Power Ltd.)	560	Road & Sea
2	Coal and coke	5600 and 700	5600 and 7000	Indigenous (Vimla Infrastructure India Pvt. Ltd & Industrial Hard Coke)	600	Road
3	Dolomite	1,500	3,000	Indigenous	60	Road
4	Carbon Paste	180	360	Indigenous (Hindalco Industries Limited)	370	Road
5	Ferro Slag	3,600	7,200	Own/Indigenous	25	Road
6	Quartz	1,800	3,600	Indigenous	10	Road

- 50.6.8 The freshwater consumption of the existing unit was 120 KLD which is primarily used for cooling purposes. Now, in proposed expansion unit has proposed to modify the cooling tower to reduce drift/evaporation loss from 4% to 0.35% of total circulating cooling water. After proposed modification, the total freshwater consumption will be reduced to 100 KLD. Freshwater is being met through CSIDC (Chhattisgarh State Industrial Development Corporation) supply and ground water. PP has agreement with CSIDC for water supply and have NOC from groundwater department vide NOC no. CGWA/NOC/IND/ORIG/2023/19397 dated 10.10.2023.
- 50.6.9 The power requirement for the existing facility is 6 MW which is met through Chhattisgarh State Power Distribution Corporation Ltd (CSPDCL). After, proposed change in raw material and required modification, the power requirement for the unit will increase to 7.5 MW. Same shall be sourced through existing power supplier (CSPDCL) and from own Captive Power Plant of Hira Power and Steels Ltd. at Unit-II. One DG set of 200 KVA is already installed in the plant to meet the emergency power requirements. No additional DG set is proposed in the unit.
- 50.6.10 The capital cost of the project is Rs. Rs. 34.57 Crores (Existing: 27.58 Crores + Proposed: 6.99 Crores).
- 50.6.11 It is reported that there is no violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration.
- 50.6.12 Proposed Terms of Reference: [Baseline data collection period: March to May 2023]

Attributes	Parameters	Sampling		Remarks
		No. of Stations	Frequency	
Air	PM10, PM2.5, SO2, NOx, CO	9	Twice a week	-
Meteorological Parameters	Temperature, Humidity, Rainfall, Wind speed, wind direction	1	Daily	-
Noise	Day time noise and Night time noise	9	24 hour	-
Ground water	As per CPCB guidelines	8	One time in season	-
Surface Water		8		
Land	Land use/land cover	10 Km radius	-	-
Soil quality	Chemical and Physical parameters	8	One time in season	-

Biological	Flora and Fauna	10 Km radius	-	-
Socio Economic Parameters	-	10 Km radius	-	-

Written submission by the PP:

50.6.13 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 16.12.2023 through email dated 16.12.2023 submitted the following information:

S. No.	Condition as per CCR dated 06.12.2023	As per CCR dated 06.12.2023	Action Plan
1	<p>Condition No. 11 of Water Consent Condition No. 10 of Air Consent that:</p> <p>Industry shall ensure transportation of raw material like coal, iron ore etc. in mechanically covered vehicle on or before 10.09.2018</p>	<p>“ Not complied” Mentioned by CECB with following comments:</p> <p>Industry agrees.</p> <p>Industry has informed us that due to non-availability of mechanically covered vehicle in markets for transportation of raw materials and fuels they are transporting raw material and fuels in Tarpaulin covered trucks.</p> <p>The above is being transported by the industry by covering the vehicle with the Tarpaulin</p>	<p>As per the Chhattisgarh environment Conservation Board office order 3600/H.O./TECH/CECB/2021 Nawa Raipur dated 24.08.2021 Steel Plants have been relieved from use of mechanically covered trucks for the purpose of transportation till 12.07.2023 due to unavailability of these types of trucks in the nearby markets. Hence PP was carrying out transportation of raw material by covering the vehicle through Tarpaulin.</p> <p>Surprisingly CECB vide letter No. 4141/H.O./TECH/CECB/2023, Nawa Raipur dated 28.08.2023 has asked to submit difficulties arising in transporting raw material products by Mechanically covered vehicles. PP has submitted the difficulties through email dated 03.10.2023 to Regional office.</p> <p>PP further states that practically it is impossible to transport raw materials by mechanically covered trucks due to non-availability of these type of trucks in the Indian markets as such. Presently PP is transporting raw material by fully covering trucks through Tarpaulin.</p>
2	Summary of the condition of Chhattisgarh Environment Conservation Board regarding transportation of	Photographs of the Tarpaulin Covered trucks are submitted.	PP has attached the facts of impractical condition of transportation by mechanically covered vehicle.

Raw materials/ products through Mechanically covered vehicles.		
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Deliberation by the Committee

50.6.14 The Committee noted the following:

- i. The instant proposal is for expansion of Ferro Alloys Production Unit from 9,000 MT/Year to 18,000 MT/Year.
- ii. PP has reported that this facility was established in 1988 by M/s Jain Carbide & Chemicals Pvt. Ltd (now known as Hira Power & Steels Limited (Unit-I)) with prior approval from the pollution control board, vide letter no. 614/R.O/PNM/Raipur/88 21.03.1988. Subsequently, the company's name was changed to Hira Power & Steels Limited, and a fresh consent under the new name was obtained from the pollution control board, as per letter no. 08&09/RO/TS/CECB/2009 dated 03.01.2009. On November 30, 2015, the company ceased operations due to structural issues and the furnace reaching the end of its operational life. Following this, several modifications were made to the plant to bring it back into production-ready condition, and renewal of consent to operate was obtained from the Pollution Control Board, vide letter no. 5093/RO/TS/CECB/2021 dated 08.03.2021. Now, unit is operating on same production capacity since year 1988 and has valid consent to operate issued by pollution control board vide letter no. 2664/RO/TS/CECB/2023 dated 06.09.2023 valid upto 31.10.2026 for Ferro alloys production (3,000 MT/Year/Shift or 9,000 MT/Year).
- iii. The EAC took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
- iv. PP submitted that total land is 12919.806 Sqm. Land has been taken on Lease from Chhattisgarh State Industrial Development Corporation (CSIDC) Raipur by Hira Power and Steel Ld. Land is under possession of HPSL.
- v. Urla Village is located at a distance of 0.12 km (W) from the project site along with other sensitive areas within the study area of the project site. The EAC is of the opinion that PP shall prepare and include in the EIA/EMP Report the environmental safeguard measures to minimise the impact on the habitation of the locals.
- vi. After proposed modification, the total freshwater consumption will be reduced to 100 KLD. Freshwater is being met through CSIDC (Chhattisgarh State Industrial Development Corporation) supply and ground water. The EAC is of the opinion that PP shall obtain necessary permission in this regard. Also, PP shall explore the possibility to shift to alternate source to reduce dependency on ground water.
- vii. The EAC noted that the proposed projects falls under CPA. The PP/Consultant needs to submit a comprehensive and quantified compliance of all the conditions applicable to CEPI in pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019.

viii. The EAC deliberated on the written submission of the project proponent and found it satisfactory.

Recommendations of the Committee

50.6.15 After deliberations, the Committee **recommended** the project proposal **subject to uploading of written submission on portal** for prescribing following specific ToRs for undertaking detailed EIA and EMP study alongwith Public Hearing in addition to the generic ToRs enclosed at **Annexure-1** read with additional ToRs at **Annexure-2**:

- (i) Urla Village is located at a distance of 0.12 km (W) from the project site along with other sensitive areas within the study area of the project site. Proponent shall prepare appropriate environmental safeguard measures to minimise the impact on the habitation of the locals.
- (ii) In pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be prepared submitted with EIA/EMP Report.
- (iii) As proposed, Freshwater of 100 KLD shall be met through CSIDC (Chhattisgarh State Industrial Development Corporation) supply and ground water. PP shall obtain necessary permission in this regard. Also, PP shall explore the possibility to shift to alternate source to reduce dependency on ground water.
- (iv) PP shall prepare and implement a plan for improving the housekeeping on regular basis.
- (v) PP shall include in the EIA/EMP report the plan for disposal of Fe-Mn and Si-Mn slag.

DAY-2: DECEMBER 14, 2023 [THURSDAY]

Consideration of Environmental Clearance Proposal

Agenda No. 50.7

50.7 Expansion in steel manufacturing unit from 29,700 TPA to 98,000 TPA of steel Ingots/Billets by upgrading existing Induction furnace of capacity 7 TPH to 10 TPH and addition of one more induction furnace of capacity 10 TPH by M/s Bhawani Shankar Castings Pvt. Ltd., located at Village- Raowali, Pathankot Road, District-Jalandhar, Punjab – Consideration of Environmental Clearance.

[Proposal No.; IA/PB/IND1/445902/2023; File No. IA-J-11011/26/2022-IA-II(IND-I)]

[Consultant: Chandigarh Pollution Testing Laboratory –EIA Division; Valid upto; 12.02.2025]

50.7.1 The EAC noted that PP/Consultant have sent the documents pertaining to the proposed project to the members of EAC only on 13th December, 2023 i.e. on the day of start of the EAC meeting which is not in compliance with the agenda [In Agenda it was mentioned that the PP shall submit

all the requisite documents to EAC by 6th December, 2023]. The EAC is of the view that this is very unprofessional on the part of Consultant as post listing of the case in the agenda, PP/Consultant are expected to send the documents well within the stipulated time period as mentioned in the agenda so that EAC members can go through the same to prepare themselves for appraisal of the proposal. This shows PP/Consultant are not serious about their proposal. The EAC also warned the Consultant in this regard. In view of the same, the Committee deferred the proposal and recommended to consider the proposal once PP/Consultant are ready with all the requisite documents/information to attend the meeting.

Agenda No. 50.8

50.8 Expansion Proposal of Iron Ore Beneficiation Plant from 3.284 MTPA to 5.657 MTPA, Iron Ore Pelletization Plant from 2.7 MTPA to 4.7 MTPA along with Coal Gasification Plant 92000 Nm³/hr to 151500 Nm³/hr and Mineral Grinding Plant from 0.2 MTPA to 0.4 MTPA for manufacturing of Magnetite Powder within existing facilities by M/s Godawari Power & Ispat Limited, located at Plot No. 428/2, and other Phase-1, Industrial Area Village Siltara and Tanda, Tahsil Dharsiwa, District Raipur, Chhattisgarh - Consideration of Environmental Clearance.

**[Proposal No. IA/CG/IND1/450818/2023; File No. IA-J-11011/326/2005-IA-II(IND-I)]
[Consultant: Pollution and Ecology Control Services; Valid upto 16.10.2025]**

50.8.1 M/s. Godawari Power & Ispat Limited has made an online application vide proposal no. IA/CG/IND1/450818/2023 dated 30.11.2023 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous) and 2(b) Mineral Beneficiation under Category “A” of the schedule of the EIA Notification, 2006 and attracts general condition due to Siltara Industrial Area comes under CPA and being appraised at Central Level.

50.8.2 Name of the EIA consultant: M/s. Pollution and Ecology Control Services [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2225/RA 0291; valid upto 16.10.2025, as on December 5, 2023].

Details submitted by Project proponent

50.8.3 The details of the ToR are furnished as below:

Date of application	Consideration	Details	Date of accord	ToR Validity
05.05.2023	Standard Terms of Reference issued	Terms of Reference	13.05.2023	12.05.2027

50.8.4 The project of M/s Godawari Power & Ispat Limited located in Plot No. 428/2, Phase-1 and other, Industrial Area Village Siltara and Tanda, Tahsil Dharsiwa, District Raipur, State

Chhattisgarh is for Expansion Proposal of Iron Ore Beneficiation Plant from 3.284 MTPA to 5.657 MTPA, Iron Ore Pelletization Plant from 2.7 MTPA to 4.7 MTPA along with Coal Gasification Plant 92000 Nm³/hr to 151500 Nm³/hr and Mineral Grinding Plant from 0.2 MTPA to 0.4 MTPA for manufacturing of Magnetite Powder within existing facilities.

50.8.5 The proposal is considered during the 50th meeting of the EAC for Industry-I sector held on 13th-15th December, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

50.8.6 The Committee noted the following:

1. The PP/Consultant presented the drone video of the project site. The EAC noted the presence of a village road within the plant premises. The committee believes that the road should remain accessible for the general movement of the public. PP shall submit an undertaking in this regard. Additionally, the PP is advised to secure a No Objection Certificate (NOC) from the Village Panchayat regarding this matter.
2. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and noted that there are villages, schools, hospitals nearby. The EAC is of the view that PP shall submit a greenbelt plan comprising of three tier Green Belt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site.
3. The Committee also deliberated on the public hearing issues and noted that there are several comments recorded during the public consultation. PP shall submit the detailed action plan with budgetary provisions along with a justification in this regard.
4. The Committee deliberated action plan submitted by the proponent to address the issues raised during the public hearing and is of the view that the submitted action is not sufficient to address all the issues. The EAC advised PP to revise the action plan as per Ministry's O.M. dated 30.09.2020.
5. The existing project was granted EC vide letter no. J-11011/326/ 2005-IA-II(I) dated 01/12/2020 and subsequent amendment vide letter no. J-11011/326/ 2005-IA-II(I) dated 26/02/2021. The EAC noted that PP/Consultant has not appropriately presented the implementation status of the existing EC. A revised implementation status is required to be submitted, aligning with the facilities outlined in the EC, CTE, and CTO, presented in a tabular format.
6. The EAC noted that the proposed projects falls under CPA of Siltara Industrial Area. The PP/Consultant needs to submit a comprehensive and quantified compliance of all the conditions applicable to CEPI in pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019.

7. A canal is adjacent to the plant boundary. EAC advised to submit a NOC from the irrigation department along with a Drainage Conservation scheme to protect the natural drainage and its flow parameters.
8. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and observed that PM_{2.5} and PM₁₀ values are recorded too high. PP/Consultant shall submit the stack data including the flow rate of emission gas and stringent plan to minimise the levels of PM_{2.5} and PM₁₀.
9. The EAC deliberated on the Waste Disposal Plan and is of the opinion that PP shall submit a comprehensive solid waste management and disposal plan.
10. Project proponent shall submit details on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and 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 monitor able with defined time frames.
11. The EAC advised PP/Consultant to represent the case again with revised proposal presentation. In view of the same, the EAC opined that PP needs to update the EIA/EMP Report with all the desired details and shall submit the revised EIA/EMP report for consideration of the proposal.
12. The EAC agreed to the request of PP/Consultant and allowed them to reappear after the revision of the application incorporating the desired information.

Recommendations of the Committee:

- 50.8.7 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** to address the shortcomings enumerated at para no. 50.8.6 above. The proposal may be considered after submission of the requisite information.

Agenda No. 50.9

- 50.9 Installation of Ferro-Alloys unit to manufacture 66,000 TPA (FeMn/ SiMn) by Installing 2x18 MVA SAF; And Installation of Steel plant to manufacture 2000 TPD Billets by Installing 2x60 MT IF, 1500 TPD RM of TMT Bars/Round Bars/Wire Rods and 500 TPD Strip RM of MS Sheets/MS Pipes/MS Flats/MS Angles/MS Square Bars/MS Channels/MS Beams/MS Plates for M/s Paavan Steel-Tech Pvt. Ltd, located at Plot No D-57 (Phase I, MIDC Jalna) & Gut No 66 (Village: Daregaon Jalna) Taluka & District Jalna, Maharashtra.– Consideration of Environmental Clearance.**

Proposal No.; IA/MH/IND1/449845/2023; File No. IA-J-11011/39/2021-IA-II(IND-I)

[Consultant: Ardra Consulting Services Pvt. Ltd.,; Valid upto 12.05.2024]

50.9.1 M/s Paavan Steel-Tech Pvt. Ltd. has made an online application vide proposal no. IA/MH/IND1/449845/2023 dated 24.11.2023 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

50.9.2 Name of the EIA consultant: M/s. Ardra Consulting Services Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/22/2849; valid upto 12.05.2024, as on December 5, 2023].

Details submitted by Project proponent

50.9.3 The details of the ToR are furnished as below:

Date of application	Consideration	Details	Date of accord	ToR Validity
17.02.2023	Standard Terms of Reference issued	Terms of Reference	23.03.2023	22.03.2027

50.9.4 The project of M/s. Paavan Steel-Tech Pvt. Ltd, located at Plot No D-57 (Phase I, MIDC Jalna) & Gut No 66 (Village: Daregaon Jalna) Taluka & District Jalana, Maharashtra State is for Installation of Ferro-Alloys unit to manufacture 66,000 TPA (FeMn/ SiMn) by Installing 2x18 MVA SAF; And Installation of Steel plant to manufacture 2000 TPD Billets by Installing 2x60 MT IF, 1500 TPD RM of TMT Bars/Round Bars/Wire Rods and 500 TPD Strip RM of MS Sheets/MS Pipes/MS Flats/MS Angles/MS Square Bars/MS Channels/MS Beams/MS.

50.9.5 The proposal is considered during the 50th meeting of the EAC for Industry-I sector held on 13th-15th December, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

50.9.6 The Committee noted the following:

1. It was reported that there is some letter / direction issued by the SPCB for the exiting project. PP is required to submit the complete details of the same along with the compliance of the directions.
2. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and noted that there are sensitive areas nearby. The EAC is of the view that PP shall submit a greenbelt plan comprising of three tier Green Belt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site.

3. The EAC deliberated on the greenbelt plan and is of the opinion that PP shall revise the greenbelt plan with a timeline to complete in a period of 1 year.
4. The EAC deliberated on the EIA/EMP Report and observed that there is no Plagiarism Certificate in the beginning of the report. The EAC advised to submit the complete report including the Plagiarism Certificate.
5. The EAC noted that Rajuri Lake is at a distance of 0.35 km in South and Moti Talab at a distance of 1.40 km in SE direction along with other water bodies within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be provided.
6. The Committee deliberated on the public hearing issues and the action plan submitted by the proponent to address the issues raised during the public hearing and is of the view that the submitted action is not sufficient to address all the issues. The EAC advised PP to revise the action plan as per Ministry's O.M. dated 30.09.2020.
7. The EAC discussed the Environmental Management Plan (EMP) budget and believes that the provided EMP is insufficient to address the needs of environmental conservation, mitigation, and monitoring programs. The Project Proponent (PP) is advised to revise and submit an improved EMP plan with an appropriate budget.
8. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and observed that GLC modelling results are not justifiable. PP needs to revisit the model, reassess and submit the revised GLC data.
9. The PP also needs to submit all the sources of emission with complete details.
10. Project proponent shall submit details on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and 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 monitor able with defined time frames.
11. The EAC observed that there is no proper Engineering drawing of a layout. It is missing area statement, index etc. The PP shall prepare 3 separate drawings as a layout details. In Drg 1 PP shall cover Road networking, Plan Layout, Parking along with area statement showing % of all ingredients i.e. roads, Buildings, Parking, with indexing, scale of drawing etc. In no case road shall be abruptly terminated at any point. It shall have proper looping. PP also to show traffic flow in the drawing along road with entry and exit. In drg 2 PP shall show a layout indicating road networking, Existing Green belt and proposed Green Belt with its % against plot area including no of species WRT 2500 density per ha. In drg3 PP shall show contour map with Bench mark, Road network and drainage network along road side with drainage flow, disposal of drainage flow at lowest point with invert level etc. Further PP to show RWH details in the same drawing with calculations

12. The EAC advised PP/Consultant to represent the case again with revised proposal presentation. In view of the same, the EAC opined that PP needs to update the EIA/EMP Report with all the desired details and shall submit the revised EIA/EMP report for consideration of the proposal.
13. The EAC agreed to the request of PP/Consultant and allowed them to reappear after the revision of the application incorporating the desired information.

Recommendations of the Committee:

- 50.9.7 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** to address the shortcomings enumerated at para no. 50.9.6 above. The proposal may be considered after submission of the requisite information.

Consideration of TOR Proposal

Agenda No. 50.10

50.10 Expansion of Existing Sponge Iron Unit from 120,000 TPA to 480,000 TPA, Installation of 6x20 Ton IF, 2x20 Ton LRF, 1x3 strand 6/11m CCM for production of 360,000 TPA MS Billets, Installation of 750 TPD Rolling Mill for production of 225000 TPA TMT Bar, Captive Power Plant of 58 MW and 37,000 TPA Slag Crushing Plant at village: Budhakhap, District: Ramgarh, Jharkhand by M/s Alope Steel Industries Pvt. Ltd. – Consideration of TOR.

**[Proposal No.; IA/JH/IND1/447064/2023; File No. IA-J-11011/205/2016-IA-II(IND-I)
[Consultant: Vardan Environet; Valid upto Valid Till: 05.04.2026]**

50.10.1 M/s. Alope Steel Industries Pvt Ltd has made an application online vide proposal no. IA/JH/IND1/447064/2023 dated 20.11.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

50.10.2 Name of the EIA consultant: M/s. Vardan Environet [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2326/RA 0284; valid upto 05.04.2026, as on December 5, 2023].

Details submitted by Project proponent

50.10.3 The project of M/s Alope Steel Industries Pvt Ltd. located at Village: Budhakhap, District: Ramgarh, Jharkhand is for expansion of existing Sponge Iron Unit from 120,000 TPA to 480,000 TPA, Installation of 6x20 Ton IF, 2x20 Ton LRF, 1x3 strand 6/11m CCM for production of 360,000 TPA MS Billets, Installation of 750 TPD Rolling Mill for production of 225,000 TPA TMT Bar, Captive Power Plant of 58 MW and 37,000 TPA Slag Crushing Plant.

50.10.4 Environmental site settings:

Sl. No.	Particulars	Details	Remarks
1.	Total Land	21.16 Ha. [Private: 11.885 ha; Forest: 9.275 Ha.]	Land Use: Industrial Land+ Forest land
2.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total area – 21.16 Ha Land Area under possession – 18.896 Ha. Land Area to be acquired – 2.27 Ha. (notified forest land)	Forest Clearance application filed over an area of 9.725 Ha.

Sl. No.	Particulars	Details			Remarks																																																																									
					Including JJ land under encroachment.																																																																									
3.	Existence of habitation & involvement of R&R, if any	Project Site: Nil Study Area: <table border="1"> <thead> <tr> <th>Nearest Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Burhakhap village</td> <td>0.32km</td> <td>ENE</td> </tr> </tbody> </table>			Nearest Habitation	Distance	Direction	Burhakhap village	0.32km	ENE	R&R: Not Involved																																																																			
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5.	Elevation of the project site	341 meters above mean sea level																																																																												
6.	Involvement of Forest Land, if any	Involvement of Forest land of 9.275 Ha. (Notified Forest Land – 2.27 Ha. + JJ Land – 7.005 Ha.) area out of 21.16 Ha. total area.			Application Under process. The DFO, Ramgarh has																																																																									

Sl. No.	Particulars	Details	Remarks									
		Forest clearance is applied for 9.275 Ha. vide proposal no. FP/JH/ENCRH/39652/2019 dated 01/04/2019.	recommended for FC									
7.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	Project Site: Nil Study Area: <table border="1"> <thead> <tr> <th>Water-body</th> <th>Distance (Km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Meramgrah Nala</td> <td>0.50</td> <td>East</td> </tr> <tr> <td>Damodar River</td> <td>1.11</td> <td>SSE</td> </tr> </tbody> </table>	Water-body	Distance (Km)	Direction	Meramgrah Nala	0.50	East	Damodar River	1.11	SSE	--
Water-body	Distance (Km)	Direction										
Meramgrah Nala	0.50	East										
Damodar River	1.11	SSE										
7.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	Study area: Forest area of 9.275 Ha. is involved in the plant area of 21.16 Ha. List of Protected Forest <ul style="list-style-type: none"> • Marar PF is at 5.75km in West Direction • Kuju PF is at 6.33km in NW direction. • Tilaiya PF is at 5.78km in WNW direction. • Kankebar PF is at 8.65km in SSW direction. 	--									

50.10.5 The existing project was accorded CTE vide letter no. N-293 dated 09.04.05 for installation of 4x100 TPD Sponge Iron Plant. Environment Clearance vide Ir. no. J-11011/205/2016-IA. II(I) dated 23.07.2018 was granted under EIA Notification, 2006 and CTO for the existing unit was accorded by Jharkhand State Pollution Control Board vide Ir. no. JSPCB/HO/RNC/CTO-13199098/2022/1498 dated 23.10.2022. The validity of CTO was valid till 30.09.2023 and The CTO renewal is applied and is under process with JSPCB.

50.10.6 Implementation status of the existing EC:

Sl. No	Facilities	As per EC dated 23.07.2018 and corrigendum dated 08.08.2019		Implementation Status as on 06.12.23	Production as per CTO in TPA
		Unit	Production in TPA		
1	Sponge Iron Plant	4x100 TPD DRI Kilns (existing)	120,000	Implemented under CTE 2005	120,000
2	Steel Melting Shop	3x12 Ton Ind. Fce. 2x6/11m Billet Caster	108,000	Unimplemented	---
3.	Rolling Mill	300 TPD	90,000	Unimplemented	---

Sl. No	Facilities	As per EC dated 23.07.2018 and corrigendum dated 08.08.2019		Implementation Status as on 06.12.23	Production as per CTO in TPA
		Unit	Production in TPA		
4.	Iron ore Crushing and Beneficiation plant	80 -100 TPH	225,000	Unimplemented	---
5.	Briquetting unit	--	40,100	Unimplemented	---
6.	Slag Crushing Unit	8 TPH	16,200	Unimplemented	---
7.	WHRB	4x9 TPH	18 MW	Unimplemented	---
8.	AFBC	1x45 TPH		Unimplemented	---

50.10.7 The unit configuration and capacity of existing project is given as below:

Plant Equip ment/ Facility	Existing facilities as per EC dated 23.07.2018 and Corrigendum in 08.08.2019								Proposed Units		Final (Existing + Proposed)	
	Total (A+B)		Implemented (A)		Unimplem ented (B)		As per CTO					
	Config.	Cap. TPA	Config.	Cap. TPA	Config.	Cap. TPA	Config.	Cap. TPA	Config.	Cap. TPA	Config.	Cap. TPA
Sponge Iron Plant	4x100 TPD DRI Kiln	120,000 (existing)	4 x 100 TPD DRI Kiln	120,000	--	--	4 x 100 TPD DRI Kiln	120000	2 x 600 TPD DRI Kiln	360000	4 x 100 TPD 2 x 600 TPD DRI Kiln	480,000
Induction Furnace	3x12 Ton	Billets: 108,000	--	--	3x12 Ton	Billets : 108,000	--	--	6x20 Ton	Billets: 360000	6 x 20 Ton	Billets: 360,000
Ladle Refining Furnace	--		--	--	2		--	2x20 Ton	2x20 Ton			
Billet Caster	2 strand 6/11m		--	--	2 strand 6/11m		--	3 strand 6/11m	3 strand 6/11m			
Rolling Mill	300 TPD	90,000	--	--	300 TPD	90,000	--	--	750 TPD	225000	750 TPD	225,000
Iron ore Crushing and Beneficiation plant	80-100 TPH	225,000	--	--	80-100 TPH	225,000	--	--	--	--	--	--
Briquetting unit	--	40,100	--	--	--	40,100	--	--	--	--	--	--
Slag Crushing Unit	8 TPH	16200	--	--	8 TPH	16,200	--	--	15 TPH	37,000	15 TPH	37,000

Plant Equipment/Facility	Existing facilities as per EC dated 23.07.2018 and Corrigendum in 08.08.2019								Proposed Units		Final (Existing + Proposed)	
	Total (A+B)		Implemented (A)		Unimplemented (B)		As per CTO					
	Config.	Cap. TPA	Config.	Cap. TPA	Config.	Cap. TPA	Config.	Cap. TPA	Config.	Cap. TPA	Config.	Cap. TPA
WHRB	4x9 TPH	Power: 18 MW	--	--	4x9 TPH	Power : 18 MW	--	--	4x9 TPH 2x63 TPH	Power: 58 MW	4x9 TPH 2x63 TPH	Power: 58 MW
AFBC	1x45 TPH		--		1x45 TPH		--		1x45 TPH 1x54 TPH		1x45 TPH 1x54 TPH	

50.10.8 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

Sl. No.	Raw Material	Annual Quantity (tonnes)			Source	Distance from Site (km)	Mode of Transport
		Existing	Expansion	Total			
1.	Iron Ore Pellets	180,000	540,000	720,000	The Odisha Mining Corporation Ltd, Odisha Rungta Mines Limited, Chaibasa, Orrisa Metalika Pvt Ltd, Kharagpur	600 kms.	Through Rail up to Digwar Railway Station then by road (3 km) to plant site in covered trucks
2.	Coal for DRI	108,000	324,000	432,000	Central Coalfields Ltd, Chatra, Jharkhand NCL, Singrauli, MP	380 kms.	
3.	Steam Coal	--	108,165	108,165	Central Coalfields Ltd, Chatra, Jharkhand NCL, Singrauli, MP	380 kms.	
4.	Dolomite	6,000	18,000	24,000	Satguru Minerals, Bilaspur Balaji Traders, Chandauli, UP	500 kms.	

Sl. No	Raw Material	Annual Quantity (tonnes)			Source	Distance from Site (km)	Mode of Transport
		Existing	Expansion	Total			
5.	Steel Scrap	--	21,970	21,970	In-house + Purchase	20 km	By road in covered trucks
6.	Pig Iron	--	65,910	65,910	Local market	20 km	By road in covered trucks
7.	Lime (Flux)	--	4,350	4,350	Local market	20 km	By road in covered trucks
8.	Ferro Alloys	--	6,090	6,090	Local market	20 km	By road in covered trucks
	Total	2,94,000	10,88,485	13,82,485			

50.10.9 Existing Water requirement is 330 m³/day, water requirement for 2,438 m³/day is obtained from DVC through Damodar River and permission for the same has been obtained from DVC vide letter no. MRO/ Tariff Cell/ ASIP-440 dated 22.05.2018. The water requirement for the proposed expansion project is estimated as 4,355m³/day and permission for additional water required will also be obtained from DVC.

50.10.10 Existing power requirement of 1.5MW is obtained from DVC. The power requirement for the proposed expansion project is estimated as 58.5MW and will be obtained from the Captive Power Plant and DVC. Permission for the additional power requirement shall be obtained from DVC.

50.10.11 The capital cost of the proposed project is Rs. 860.13 Crores. Total estimated cost after the expansion will be Rs. 912 Crores and capital cost for environment protection measures is estimated as Rs. 35 Crores. The employment generation from the proposed expansion will be 831 Nos.

50.10.12 It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

50.10.13 Proposed Terms of Reference: [Baseline data collection period: 1st October 2023 to 31st December 2023]

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
A. Air				
a. Meteorological parameters	Temp., Relative Humidity, Wind Speed, Wind Direction, Rainfall	1 Location	Hourly sampling for three months	Secondary data from IMD, New Delhi for the nearest IMD station

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
b. AAQ parameters	PM10, PM2.5, SO2, NOx, CO	8 Locations	24-hourly sampling, twice a week for 12 weeks	Monitoring Network: 1 location in nearby habitation, 2 locations in upwind, 2 location in downwind, 2 in Crosswind and 1 project Site (Covering all sensitive receptors also)
B. Noise	Leq (Day & Night), Lmax (Day & Night), Lmin (Day & Night)	8 Locations	24-hourly sampling, twice in a week (working and non-working day) for 3 months	Monitoring Network: 1 at the project site, 7 in the nearby villages (All the sensitive receptors covered)
C. Water				
a. Surface water quality parameters	pH, EC, NO3, Na, K, Fe, Al, Ca, Cl, Cr, Mg, TDS, TSS, DO, SO4, F, BOD, COD, Zn, Cu, Mn, Cd, Turbidity, Odour	8 Locations	Once in a day in each month for one season	Sampling from River, Reservoir, and from Village Ponds
b. Ground water quality parameters	pH, Ca, Cl, Mg, TDS, SO4, F, NO3, Fe, Al, Zn, Cu, Mn, Cd, Pb, Hg, EC, Turbidity, Odour	8 Locations	Once in a day in each month for one season	One grab sample per location
D. Land				
a. Soil quality	pH, Conductivity, Soil Texture, Water Holding Capacity, Cl, Ca, Na, K, Organic matter, Mg, N, Zn, Mn, Phosphorus, Pb, Cd, Cr, Cu.	8 Locations	Once in a day in each month for one season	One sample from project site and one from Agriculture land, forest area, near water body and nearby villages.
E. Biological				

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
a. Aquatic	Species of Plants and Avifauna	10 km Radius study area	one season	Secondary data has been collected from Government offices, NGOs, published literature
b. Terrestrial	Species of Plants and Animals	10 km Radius study area	one season	Secondary data has been collected from Government offices, NGOs, published literature
<i>F. Socio-economic parameters</i>	Demographic details and Occupational details	10 km Radius study area	One Season	Secondary data from census records, statistical hard books, Topo sheets, health records and relevant official records available with Govt. agencies.

Written submission by the PP:

50.10.14 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 14.12.2023 through email dated 14.12.2023 submitted the following information:

- Alope Steels Industries Pvt. Ltd. was granted an environmental clearance for expansion of steel plant located at Village: Budhakhap, District: Ramgarh, Jharkhand vide file no. J-11011/205/2016-IA. II(I) dated 23.07.2018 and corrigendum obtained on 08.08.2019. Due to various technical and financial reasons, PP could not go ahead with the installation of the facilities desired in the environmental clearance.
- An application for surrender of EC vide Form-11 has been submitted to MoEF&CC on Parivesh Portal vide Proposal No. IA/JH/INDI/455546/2023 dated 14.12.2023.
- The proposed expansion project will be implemented in an area of 21.16 Ha. out of which, 11.885 Ha. is industrial land and 9.275 Ha. land is forest land (notified forest - 2.27 ha. + Jungle Jhari Land - 7.005 ha.) for which forest clearance is applied vide proposal no. FP/JH/ENCRH/39652/2019' dated 01/04/2019 under FCA 1980. Out of total area of 21.16 Ha., 18.89 Ha. is under PP's possession and remaining 2.27 Ha. is notified forest land which will be leased after Forest Clearance. This 2.27 Ha. area in the southern side of the project will be under Greenbelt and no industrial activity will be undertaken in the said area. The application for forest clearance has been recommended by DFO and CCF, it is pending with the Nodal Officer of Jharkhand State.

Deliberation by the Committee

50.10.15 The Committee noted the following:

- i. The instant proposal is for expansion of existing Sponge Iron Unit from 120,000 TPA to 480,000 TPA, Installation of 6x20 Ton IF, 2x20 Ton LRF, 1x3 strand 6/11m CCM for production of 360,000 TPA MS Billets, Installation of 750 TPD Rolling Mill for production of 225,000 TPA TMT Bar, Captive Power Plant of 58 MW and 37,000 TPA Slag Crushing Plant.
- ii. The existing project was accorded CTE vide letter no. N-293 dated 09.04.05 for installation of 4x100 TPD Sponge Iron Plant. Environment Clearance vide Ir. no. J-11011/205/2016-IA. II(I) dated 23.07.2018 was granted under EIA Notification, 2006 with corrigendum dated 08.08.2019. CTO for the existing unit was accorded by Jharkhand State Pollution Control Board vide Ir. no. JSPCB/HO/RNC/CTO-13199098/2022/1498 dated 23.10.2022. The validity of CTO was valid till 30.09.2023 and The CTO renewal is applied and is under process with JSPCB.
- iii. PP further reported that due to various technical and financial reasons, PP could not go ahead with the installation of the facilities desired in the environmental clearance. An application for surrender of EC vide Form-11 has been submitted to MoEF&CC on Parivesh Portal vide Proposal No. IA/JH/INDI/455546/2023 dated 14.12.2023.
- iv. PP has also informed that the proposed expansion project will be implemented in an area of 21.16 Ha. out of which, 11.885 Ha. is industrial land and 9.275 Ha. land is forest land (notified forest - 2.27 ha. + Jungle Jhari Land - 7.005 ha.) for which forest clearance is applied vide proposal no. FP/JH/ENCRH/39652/2019 dated 01/04/2019 under FCA 1980. Out of total area of 21.16 Ha., 18.89 Ha. is under PP's possession and remaining 2.27 Ha. is notified forest land which will be leased after Forest Clearance. This 2.27 Ha. area in the southern side of the project will be under Greenbelt and no industrial activity will be undertaken in the said area. The application for forest clearance has been recommended by DFO and CCF, it is pending with the Nodal Officer of Jharkhand State.
- v. The EAC took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
- vi. Burhakhap village is at a distance of 0.32 km in ENE direction of the project site along with other sensitive areas exists within the study area of the project site. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact due to the project activities on these sensitive areas.
- vii. Meramgrah Nala is at 0.5 km in East and Damodar River is at a distance of 1.11 km in SSE of the project site. The EAC is of the opinion that PP shall prepare a plan for conservation of the water bodies.
- viii. The water requirement for the proposed project is estimated as 4,355m³/day which is proposed to be obtained from DVC through Damodar River. The EAC deliberated on the water requirement and found it satisfactory.

- ix. The EAC also deliberated on the submitted written representation of project proponent pertaining to greenbelt development and found it satisfactory.

Recommendations of the Committee

50.10.16 After deliberations, the Committee **recommended** the project proposal **subject to uploading the written submission on portal** for prescribing following specific ToRs for undertaking detailed EIA and EMP study alongwith Public Hearing in addition to the generic ToRs enclosed at **Annexure-1** read with additional ToRs at **Annexure-2**:

- (i) PP shall complete the process of land acquisition and conversion for industrial use. PP shall also obtain Forest Clearance for the diversion of forest land involved in the total project area.
- (ii) Burhakhap village is at a distance of 0.32 km in ENE direction of the project site along with other sensitive areas exists within the study area of the project site. Proponent shall prepare appropriate environmental safeguard measures to minimise the impact due to the project activities on these sensitive areas. PP needs to plan to strengthen green belt all around the plant area to reduce the dust pollution.
- (iii) Project proponent shall submit details on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and 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 monitor able with defined time frames.
- (iv) Meramgrah Nala is at 0.5 km in East and Damodar River is at a distance of 1.11 km in SSE of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be prepared and included in the EIA/EMP report.
- (v) Water requirement of 4,355m³/day shall be obtained from DVC through Damodar River after obtaining necessary permissions from the Competent Authority.
- (vi) The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the E.I.A., wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc.
- (vii) The Stack details and flow rate of exit gas through the stacks must be included in the EIA/EMP Report.
- (viii) The GLC modelling for CO emission from kilns and furnaces under worst-case scenario must be included in the EIA/EMP report.

Agenda No. 50.11

50.11 Proposed Expansion In Metallurgical (Ferrous & non-ferrous) Manufacturing Unit (The Existing Production Capacity of Round Bars, Rerolling/Square Bar/Hex Bar/Flat Bar: 4800 MTPA And Total Production Capacity After Proposed Expansion of Round Bars, Rerolling / Square Bar/Hex Bar/Flat Bar: 1,20,000 MTPA And Iron & Steel billets: 75000 MTPA) by M/s Capital Steel Corporation, located at Sr. No. 16/1/P1, 17/p1, Village-Sindhavadar , Tal: Wankaner & Dist.: Morbi., Gujarat – Consideration of TOR.

**[Proposal No.: IA/GJ/IND1/439574/2023; File No. IA-J-11011/319/2023-IA-II(IND-I)]
[Consultant: Paramarsh Servicing Environment and Development; Valid upto: 01.05.2024]**

50.11.1 M/s. Capital Steel Corporation has made an application online vide proposal no. IA/GJ/IND1/439574/2023 dated 21.11.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and attracts general condition due to a Wild Life Sanctuary (i.e., Rampara Wild Life Sanctuary) is located within the 5 km radius of the project site and appraised at Central Level.

50.11.2 Name of the EIA consultant: M/s. Paramarsh Servicing Environment and Development [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2124/RA 0224; valid upto 01.05.2024, as on December 5, 2023].

Details submitted by Project proponent

50.11.3 The project of M/s. Capital Steel Corporation located at Sr. No. 16/1/P1, 17/p1, Village: Sindhavadar - 363621, Taluka: Wankaner & District: Morbi, Gujarat is for expansion of existing metallurgical (Ferrous & non-ferrous) Manufacturing Unit by increasing its production capacity of Round Bars, Rerolling/Square Bar/Hex Bar/Flat Bar from 4,800 MT/Annum to 1,20,000 MT/Annum and addition of new product i.e. Iron & steel Billets of capacity 75,000 MT/Annum.

50.11.4 Environmental site settings:

S. No.	Particulars	Details	Remarks
i	Total land	2.4282 ha [Private land]	Land use: Non agriculture (NA) permission for Industrial-purpose use has already been obtained.

S. No.	Particulars	Details	Remarks																					
i	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Land is already acquired by M/s. Capital Steel Corporation is a private land. Non agriculture (NA) permission for Industrial-purpose use has already been obtained by project proponent from concerned authority.	--																					
iii.	Existence of habitation & involvement of R&R,if any.	Project site: The unit is located in Sindhavadar Village of Wankaner Taluka. The unit is existing and under operation. No habitation exists in plant site; Hence no R & R is involved. Study Area: Khijadiya - 0.95 km in East direction from the project site.	R & R not required.																					
iv.	Latitude and Longitude of all corners of the project site.	<table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>22°31'40.30"N</td> <td>70°53'38.68"E</td> </tr> <tr> <td>B</td> <td>22°31'40.03"N</td> <td>70°53'40.53"E</td> </tr> <tr> <td>C</td> <td>22°31'38.73"N</td> <td>70°53'42.50"E</td> </tr> <tr> <td>D</td> <td>22°31'35.77"N</td> <td>70°53'44.93"E</td> </tr> <tr> <td>E</td> <td>22°31'33.90"N</td> <td>70°53'44.92"E</td> </tr> <tr> <td>F</td> <td>22°31'33.70"N</td> <td>70°53'38.38"E</td> </tr> </tbody> </table>	Point	Latitude	Longitude	A	22°31'40.30"N	70°53'38.68"E	B	22°31'40.03"N	70°53'40.53"E	C	22°31'38.73"N	70°53'42.50"E	D	22°31'35.77"N	70°53'44.93"E	E	22°31'33.90"N	70°53'44.92"E	F	22°31'33.70"N	70°53'38.38"E	--
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E	22°31'33.90"N	70°53'44.92"E																						
F	22°31'33.70"N	70°53'38.38"E																						
v	Elevation of the project site	130 m above mean sea level	--																					
vi.	Involvement of Forest land if any.	No, project does not involve forest land.	--																					
vii.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the projectsite as well as study area	Project site: None Study area: <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Asoi River</td> <td>0.4</td> <td>ENE</td> </tr> <tr> <td>Macchu Dam</td> <td>8.86</td> <td>SE</td> </tr> </tbody> </table>	Water body	Distance	Direction	Asoi River	0.4	ENE	Macchu Dam	8.86	SE	--												
Water body	Distance	Direction																						
Asoi River	0.4	ENE																						
Macchu Dam	8.86	SE																						
viii.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/tiger reserve/ elephant reserve etc. if any within the study area	Study area: Name of the ESZ/ESA: Rampara Wildlife Sanctuary - 2.75 km in East direction Status of Notification: Approved / Final Distance of project from ESZ/ESA: 2.75km in East direction Authenticated map of ESZ projecting distance of ESZ from project site: related details will be given in EIA/EMP report.	--																					

50.11.5 The existing project was accorded Consent to Establish vide Ir.no. GPCB/CCA/MOR-5020/ID-87495/678287 (CTE-119514) dated: 18/07/2022 for production of Round Bars, Rerolling/Square Bar/Hex Bar/Flat Bar: 4800 TPA. The proposal has been applied first time for obtaining Environmental Clearance as previously the project of Rolling Mill was not covered under the purview of Environmental Clearance under EIA Notification 2006. (Secondary metallurgical processing industries with Production \leq 5,000 TPA). Consent to Operate for the existing unit is accorded by Gujarat State Pollution Control Board vide consent order. no. AWH-63277 dated: 29/04/2023. The validity of CTO is up to 24/04/2024. Based on the information provided by the PP the EAC is of the view that EC was not required for the existing project.

50.11.6 The existing project was accorded Consent to Establish vide Ir.no. GPCB/CCA/MOR-5020/ID-87495/678287 (CTE-119514) dated: 18/07/2022. The proposal has been applied first time for obtaining Environmental Clearance as previously the project of Rolling Mill was not covered under the purview of Environmental Clearance under EIA Notification 2006. (Secondary metallurgical processing industries with Production \leq 5,000 TPA). Consent to Operate for the existing unit is accorded by Gujarat State Pollution Control Board vide consent order. no. AWH-63277 dated: 29/04/2023. The validity of CTO is up to date: 24/04/2024.

50.11.7 Implementation status of the existing CTE:

Sr. No.	Description / Document No.	Date of Issue	Date of Validity	Name of the Product	Capacity	Remarks
1.	CTE / NOC vide order no.: CTE-119514	18/07/2022	17/04/2029	Round Bars/ Re rolling/ Square bar/Hex bar/Flat bar	2200 MT/Month	Unit has a valid CTE & CTO from the SPCB for existing facility.
2.	CTO/CC&A vide order no.: AWH-63277	29/04/2023	24/04/2024		400 MT/Month	

50.11.8 The unit configuration and capacity of existing project is given as below:

Sr. No.	Configuration		Capacity		
			Existing permission as per CCA	Proposed	Total
1	Production Plant	Round Bars, Rerolling/ Square Bar/Hex Bar/Flat Bar	4800 MTPA	1,15,200 MTPA	1,20,000 MTPA
		Iron & steel Billet	--	75000 MTPA	75000 MTPA
2	Re-Heating Furnace		13 MT/Day	-	13 MT/Day
3	Re-Heating Furnace-1		--	200 MT/Day	200 MT/Day
4	Re-Heating Furnace-2		--	200 MT/Day	200 MT/Day
5	Induction furnace (2 Nos. Crucibles)		--	100 MT/Day	100 MT/Day

6	Induction furnace (2 Nos. Crucibles)	--	150 MT/Day	150 MT/Day
7	D. G. Set	--	125 KVA	125 KVA

50.11.9 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S. No.	Raw Material	Quantity required per annum			Source	Distance from site (Kms)	Mode of Transportation
		Existing	Expansion	Total			
1.	Billets	5040 TPA	1,20,960 TPA	1,26,000 TPA	-	-	By road
2.	M.S. Scrap	--	80000 TPA	80000 TPA	-	-	By road

50.11.10 Existing Water requirement is 5.6 m³/day, water requirement is obtained from borewell. The water requirement for the proposed project is estimated as 48 m³/day, out of which 38 m³/day of fresh water requirement will be obtained from the borewell and the remaining requirement of 10 m³/day will be met from the recycled / reused water from STP. The permission for drawl of groundwater will be obtained from the concerned authority prior to appraisal presentation.

50.11.11 Existing power requirement of 0.9 MW is obtained from PGVCL, Gujarat. The power requirement for the proposed project is estimated as 9 MW. The total power requirement after proposed expansion will be 9.9 MW will be obtained from PGVCL, Gujarat.

50.11.12 The capital cost of the project is Rs. 42.27 Crores (Existing: 12.86 Crores + Proposed expansion: 29.41 Crores) and the capital cost for environmental protection measures is proposed as Rs. 3 Crore. The total employment generation from the proposed expansion project is 90 nos.

50.11.13 It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

50.11.14 Proposed Terms of Reference: [Baseline data collection period: December, 2023 to February, 2024]

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
A. Air				
a. Meteorological parameters	Temperature, Wind Speed, Relative Humidity, Solar Radiation	01 Location	Throughout Study Period (December-2023 to February-2024)	--

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
b. AAQ parameters	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, etc.	08 Locations	3 Months, As per NAAQS, CPCB Notification	--
B. Noise	Day Equivalent Night Equivalent	08 Locations	Once during Baseline Monitoring Period	
C. Water				
Surface water quality parameters	Physical, Chemical and Bacteriological Parameters	08 Locations	Once during Baseline Monitoring Period	32 Parameters
Ground water quality parameters	Physical, Chemical and Bacteriological Parameters	08 Locations	Once during Baseline Monitoring Period	32 Parameters
D. Land				
a. Soil quality	Water Holding Capacity, Texture, Porosity, SAR, CEC, pH, Ca, Mg, Na, K, Zn, Mn etc	08 Locations	Once during Baseline Monitoring Period	18 Parameters
b. Land use	Land use map of the study area	Study Area	--	--
E. Biological				
a. Aquatic	--	--	--	--
b. Terrestrial	--	Within Study Area	Once during Baseline Monitoring Period	--
F. Socio-economic parameters	--	Villages Within Study Area	Once during Baseline Monitoring Period	--

Written submission by the PP:

50.11.15 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 15.12.2023 through email dated 15.12.2023 submitted the following information:

Sl. No.	Points raised by EAC	Reply / Justification
1.	Commitment regarding adequate greenbelt development in and around the periphery of the unit as per the requirement. And subsequently submit the revised layout plan including greenbelt details.	<ul style="list-style-type: none"> • Please may note that, since it is existing unit having a valid CC&A obtained from the Gujarat Pollution Control Board (GPCB) and we are in process of greenbelt development in and around the periphery of the unit the required plantation will be completed within the period of 2 months. The total green area would be 8,135 m² (which is 33.52 % of the total land area i.e., 24,282 m²). • A commitment / undertaking w.r.t. aforesaid greenbelt development is submitted. • The revised layout plan including greenbelt demarcation details will be submitted with EIA report.
2.	Clarification regarding source of water supply.	<ul style="list-style-type: none"> • Since, this is an existing unit and the existing water requirement is 5.6 KLD which is sourced out from the borewell. (CGWA letter is submitted) • After the proposed expansion, the total water requirement will be 48 KLD on 1st day and from 2nd onwards fresh water requirement will be 38 KLD (48 KLD – 10 KLD STP treated water), which will be met from the borewell and • As per CGWA, Categorization of Assessment Units; The proposed project location is falls under “Safe Zone” and PP is eligible/allowed to get the NOC for ground water withdrawal from CGWA (Screenshot of the same is submitted). and once PP receipt the TOR granted by the EAC / MoEF&CC, they will apply to obtain the NOC from CGWA for the total proposed water requirement.
3.	Provide the details of HFL data / distance from the project site boundary.	<ul style="list-style-type: none"> • Since, the proposed expansion will be carried out within the existing industrial premises for which we have a valid CC&A granted by the GPCB. And there is no additional land is required for the proposed expansion. • The distance from the project location is 0.4 km away from the Asoi River HFL. Elevation map is submitted. • It may also note that, Asoi, is tributary which account for the catchment area of Machhu River. Asoi Tributary rises from the hilly region of village Vanjhara of Wankaner taluka and drains towards North direction and meets the main stream just upstream of village Derali.

Sl. No.	Points raised by EAC	Reply / Justification
		There is no history of flood and thus, there may no flood issue will arise.
4.	Undertaking regarding project site location is outside of the Rampara wildlife sanctuary.	<ul style="list-style-type: none"> • The project location is situated at 2.75 km away from the Eco-Sensitive Zone (ESZ) boundary of Rampara Wildlife Sanctuary and • The project location is situated at 3.55 km away from the Rampara Wildlife Sanctuary • An undertaking regarding project location does not fall in the Rampara Wildlife Sanctuary along with google image showing distance between Rampara Wildlife Sanctuary Boundary / ESZ and Project Site is submitted. • Please also may note that, wildlife clearance is not applicable to the unit as per know your approval on parivesh portal and the proof of the same is submitted.

Deliberation by the Committee

50.11.16 The Committee noted the following:

- i. The instant proposal is for expansion of existing metallurgical (Ferrous & non-ferrous) Manufacturing Unit by increasing its production capacity of Round Bars, Rerolling/Square Bar/Hex Bar/Flat Bar from 4,800 MT/Annum to 1,20,000 MT/Annum and addition of new product i.e. Iron & steel Billets of capacity 75,000 MT/Annum.
- ii. The existing project was accorded Consent to Establish vide Ir.no. GPCB/CCA/MOR-5020/ID-87495/678287 (CTE-119514) dated: 18/07/2022. The proposal has been applied first time for obtaining Environmental Clearance as previously the project of Rolling Mill was not covered under the purview of Environmental Clearance under EIA Notification 2006. (Secondary metallurgical processing industries with Production \leq 5,000 TPA). Consent to Operate for the existing unit is accorded by Gujarat State Pollution Control Board vide consent order. no. AWH-63277 dated: 29/04/2023. The validity of CTO is up to date: 24/04/2024. The EAC deliberated on the existing project and confirmed that EC was not required for the same.
- iii. The EAC took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
- iv. Total project land is 2.4282 ha [Private land] which is already acquired by M/s. Capital Steel Corporation. Conversion for Industrial-purpose use has already been obtained by project proponent from concerned authority.
- v. Khijadiya village is at a distance of 0.95 km in East direction of the project site along with other sensitive areas exists within the study area of the project site. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact due to the project activities on these sensitive areas.

- vi. Asoi River is at a distance of 0.4 km in SSE of the project site. PP has submitted the elevation map and further reported that Asoi, is tributary which account for the catchment area of Machhu River. Asoi Tributary rises from the hilly region of village Vanjhara of Wankaner taluka and drains towards North direction and meets the main stream just upstream of village Derali. There is no history of flood and thus, there may no flood issue will arise. The EAC is of the opinion that PP shall provide the HFL data and prepare a plan for conservation of the water bodies and submit the same with the EIA/EMP Report.
- vii. The EAC noted that the project site is situated at 2.75 km away from the Eco-Sensitive Zone (ESZ) boundary of Rampara Wildlife Sanctuary and 3.55 km away from the Rampara Wildlife Sanctuary. PP has submitted an undertaking regarding project location not falling in the Rampara Wildlife Sanctuary along with google image showing distance between Rampara Wildlife Sanctuary Boundary / ESZ and Project Site. The EAC is of the view that PP shall submit the certificate from the Competent Authority certifying the distance of Sanctuary and its ESZ along with the authenticated map at the time of EC appraisal. The certificate shall also carry the geographical coordinates of the project site boundary.
- viii. The water requirement for the proposed project is estimated as 48 m³ /day, out of which 38 m³/day of fresh water requirement will be obtained from the borewell and the remaining requirement of 10 m³ /day will be met from the recycled / reused water from STP. PP has further reported that as per CGWA, Categorization of Assessment Units; The proposed project location falls under “Safe Zone” and PP is eligible/allowed to get the NOC for ground water withdrawal from CGWA. Once TOR is granted by the EAC / MoEF&CC, they will apply to obtain the NOC from CGWA for the total proposed water requirement. The EAC deliberated on the water requirement and is of the opinion that necessary permission shall be obtained from Competent Authority. PP shall also explore the possibility to shift to alternate source of water to reduce its dependency on ground water.
- ix. The EAC also deliberated on the submitted written representation of project proponent pertaining to greenbelt development and found it satisfactory.

Recommendations of the Committee

50.11.17 After deliberations, the Committee **recommended** the project proposal **subject to uploading the written submission on portal** for prescribing following specific ToRs for undertaking detailed EIA and EMP study **alongwith Public Hearing** in addition to the generic ToRs enclosed at **Annexure-1** read with additional ToRs at **Annexure-2**:

- (i) Khijadiya village is at a distance of 0.95 km in East direction of the project site along with other sensitive areas exists within the study area of the project site. Proponent shall prepare appropriate environmental safeguard measures to minimise the impact due to the project activities on these sensitive areas. PP needs to plan to strengthen green belt all around the plant area to reduce the dust pollution.

- (ii) Asoi River is at a distance of 0.4 km in SSE of the project site. PP shall provide the HFL data. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be prepared and included in the EIA/EMP report.
- (iii) The project site is situated at 2.75 km away from the Eco-Sensitive Zone (ESZ) boundary of Rampara Wildlife Sanctuary and 3.55 km away from the Rampara Wildlife Sanctuary. PP shall submit the certificate from the Competent Authority certifying the distance of Sanctuary and its ESZ along with the authenticated map at the time of EC appraisal. The certificate shall also carry the geographical coordinates of the project site boundary.
- (iv) The water requirement for the proposed project is estimated as 48 m³ /day, out of which 38 m³/day of fresh water requirement will be obtained from the borewell and the remaining requirement of 10 m³ /day will be met from the recycled / reused water from STP.
- (v) Water requirement of 48 m³/day is proposed to be obtained from the borewell and the remaining requirement of 10 m³ /day from the recycled / reused water from STP. PP shall obtain necessary permissions from the Competent Authority. PP shall also explore the possibility to shift to alternate source of water to reduce its dependency on ground water.
- (vi) PP shall complete the greenbelt development in and around the periphery of the unit within the period of 2 months as committed. PP shall also submit the revised layout plan including greenbelt details.
- (vii) Project proponent shall prepare layout plan showing all internal roads minimum 6m width and 9m turning radius with proper looping for smooth traffic flow, 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. The PP shall prepare 3 different drawings. Drawing No 1 should include a layout with Road Networking, Traffic Chanalization, All Plant structures, Parking with a detailed area statement for each element, Indexing with proper color code and Naming at Bottom right corner. Drawing No 2 include a layout with road networking, Existing and proposed Green belt with calculations and indexing with proper color code along with nos of trees in existence and proposed trees. Drawing No 3 includes a layout with road networking, contour drawing and drainage disposal system and rain water harvesting system with calculations, Further the disposal of storm drain point with invert level. Drawing include indexing with color code for drainage pipe lines.
- (viii) The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the E.I.A., wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc.
- (ix) The Stack details and flow rate of exit gas through the stacks must be included in the EIA/EMP Report.
- (x) The GLC modelling for CO emission from kilns and furnaces under worst-case scenario must be included in the EIA/EMP report.

Agenda No. 50.12

50.12 Expansion of Existing of SMS capacity (1 x 12 T IF with CCM of Capacity 20 TPH) from 1500 MT/M to 10,000 MT/M and Hot Rolling mill from 400 MT/M to 10,000 MT/M along with addition of 1 x12 T Induction Furnace, 1 x 20 TPH Hot Rolling Mill and 1 x 13 MVA SAF Ferro Alloy plant (Production of 36,000 TPA) by M/s. Pushkaraj Ispat (INDIA) LLP., Located at Survey No. 151 & 152, Plot No. 1 to 6, A/p: Velhale, Taluka: Sangamner, District: Ahmednagar, Maharashtra, over an area of 6.71 ha – Consideration of TOR.

[Proposal No.: IA/MH/IND1/448892/2023; File No. IA-J-11011/391/2023-IA-II(IND-I)

[Consultant: Ardra Consulting Services Pvt Ltd; Valid upto 05.12.2024]

50.12.1 M/s. Pushkaraj Ispat (INDIA) LLP has made an application online vide proposal no. IA/MH/IND1/448892/2023 dated 22.11.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous or non ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

50.12.2 Name of the EIA consultant: M/s. Ardra Consulting Services Pvt Ltd. [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/22/2849; valid upto 12.05.2024, as on December 5, 2023].

Details submitted by Project proponent

50.12.3 The project of M/s. Pushkaraj Ispat (INDIA) LLP located in Velhale Village, Sangamner Taluk, Ahmednagar District, Maharashtra is for expansion of existing SMS (1 x 12 T IF with 20 TPH CCM) from 1500 MT/M to 10,000 MT/M MS Billet and 400 MT/M to 10,000 MT/M MS Flat , TMT & Rolling Bars with addition of 1 x12 T Induction Furnace & 1 x 20 TPH Rolling Mill as well as 1 x 13 MVA SAF for Production of 36,000 TPA Ferro Alloys.

50.12.4 The proposal was considered during the 50th meeting of the EAC for Industry-I sector held on 13th – 15th December, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

50.12.5 The Committee noted the following:

1. The EAC observed that PP /Consultant has not prepared and not presented the Drone survey of the project site during the appraisal of the project although the same has been clearly mentioned in the agenda of the meeting. In view of the same, the EAC advised Project proponent/Consultant to present the drone survey during appraisal of the proposal.

The EAC advised the Project proponent/Consultant to read the instructions/guidelines given in the Agenda before coming to the EAC meeting.

2. The EAC, reviewing the Decision Support System (DSS) information for the project site on PARIVESH, noted that a portion of the project is situated within forest land. Despite this, the Project Proponent (PP) contends that the designated project land is privately owned and does not involve forest land. In light of this, the EAC suggests that the PP shall obtain a certificate from the State Forest department, affirming that the proposed project site does not fall within the forest area. The certificate should include geographical coordinates of the proposed project site and shall be accompanied with an authenticated map indicating the distance from the nearest forest area to the project site.
3. The PP has not clearly reported about the permissions (EC/CTE) obtained for the existing project. PP is advised to submit all the relevant details regarding expansion project along with the implementation status of the facilities in a tabular format as envisaged in the EC/CTE for the existing project.
4. The EAC advised PP/Consultant to represent the case again with revised proposal presentation. In view of the same, the EAC opined that PP needs to update the PFR Report with all the desired details and shall submit the revised PFR report for consideration of the proposal.
5. The EAC agreed to the request of PP/Consultant and allowed them to reappear after the revision of the application incorporating the desired information.

Recommendations of the Committee:

- 50.12.6 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** to address the shortcomings enumerated at para no. 50.12.5 above. The proposal may be considered after submission of the requisite information.

Corrigendum/Amendment in Environmental Clearance Proposal

Agenda No. 50.13

50.13 Expansion of Integrated Cement Plant - Clinker (2.4 to 8.0 Million TPA), Cement (4.0 to 9.0 Million TPA), Waste Heat Recovery Power Generation (30 to 70 MW), D.G. Sets (2000 to 3000 KVA) along with installation of Captive Power Plant (2 x 25 MW), Synthetic Gypsum Plant (1560 TPD) & Railway Siding by M/s Shree Cement Limited (Unit: Karnataka Cement Project), located at Village: Benkanhalli, Taluka: Sedam, District: Kalaburagi, Karnataka- Amendment in Environmental Clearance.

[Proposal No. IA/KA/IND1/453557/2023; File No. IA-J-11011/458/2008-IA.II(I)]

50.13.1 The instant Proposal was earlier considered (Proposal number IA/KA/IND1/426062/2023) in the 37th meeting of the EAC for Industry-I sector held during 26th June, 2023 wherein after detailed deliberations, the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions.

50.13.2 The above mentioned project was granted Environment Clearance by MoEF&CC vide EC Identification No.: EC23A1101KA5664051E and MoEF&CC File no. IA-J-11011/458/2008-IA-II(IND-I) on 27th Sept., 2023. In the EC letter dated 27th Sept., 2023, it is mentioned that the specific & general conditions are attached as Annexure- 1. However, there was no Attachment depicting Specific & General conditions in the issued EC letter, dated 27th Sept., 2023.

50.13.3 Subsequently, the PP vide Proposal No. IA/KA/IND1/453557/2023 has made a request for issuance of Corrigendum for the obtained EC letter dated 27th Sept.,2023 with Annexure - 1 showing Specific & General Conditions.

50.13.4 In view of the above, the instant proposal was considered by the EAC in its **50th meeting held during 13-15th December 2023** and after detailed deliberations, the committee **recommended** the instant proposal for grant of amendment in Environment Clearance (No.: EC23A1101KA5664051E) dated 27th September, 2023 **with stipulation of the following specific and general conditions** under the provisions of EIA Notification, 2006.

A. Specific conditions:

- (i) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- (ii) The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

- (iii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- (iv) PP shall strictly implement the additional Environmental safe guards as proposed to address the emissions due to high AAQ values.
- (v) The nearest human settlement from the site is Benkanhalli Village located at a distance of 1.5 Kms in the North direction of the project site. Also there is a school and approx. 34 villages in 10 km radius study area. Project Proponent shall prepare and implement an action plan for environmental safeguard measures to minimise the impact on these ESA's. The company shall also include some of these locations in its environmental monitoring programme.
- (vi) The water requirement of 2543 m³/day, shall be met from Groundwater (983 m³/day), Kagina River (1500 m³/day) and Mine pit (60 m³/day) of the captive mines of Shree Cement Limited. Necessary permission shall be obtained from the Competent Authority(ies). PP shall also explore the possibility for alternate source of water to reduce dependency on ground water.
- (vii) Three tier Green Belt shall be developed in atleast 33% of project area in in the coming monsoons of 2023 with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy alongwith windshield inside the plant premises to act as green barrier for air pollution & noise levels towards nearby villages. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- (viii) All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 41 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- (ix) As committed, the PP shall adopt 5 villages naming Benahakalli, Kodla. Dongaom, Hugoal and Rajole and implement the Village Adoption program consisting of need-based community development activities, to develop them into model villages.

B. General Conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

- ii. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
- x. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xi. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiii. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles

- as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
- xiv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
 - xv. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
 - xvi. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
 - xvii. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
 - xviii. Provide Low NO_x burners as primary measures and SCR /NSCR technologies as secondary measure to control NO_x emissions.
 - xix. The emission norms applicable for the cement plant shall be adhered to.
 - xx. Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.
 - xxi. DeSO_x system shall be provided dry type. NO_x level shall be maintained below 600 mg/Nm³ by using best available technology.
 - xxii. Petcoke dosing shall be controlled automatically to control SO₂ emission from chimney within the prescribed limits.
 - xxiii. PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
 - xxiv. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
 - xxv. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
 - xxvi. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant

and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.

- iii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. Air Cooled condensers shall be used in the captive power plant.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- iii. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

V. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.
- iii. The project proponent make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- iv. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.
- v. Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.
- vi. Waste heat recovery system shall be provided for kiln and cooler.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- vi. Solid waste utilization
 - a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
 - c. Used refractories shall be recycled as far as possible.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. 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 and 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 monitor able with defined time frames.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP.

Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. 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 as committed.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented

- vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
- xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xiv. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
- xv. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- xvi. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xvii. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed

by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

DAY-3: DECEMBER 15, 2023 [FRIDAY]

Consideration of Environmental Clearance Proposal

Agenda No. 50.14

- 50.14 Proposed Expansion of Billets from 30,000 TPA to 1,89,000 TPA and Proposed Hot Charge Rolling Mill of 1,80,000 TPA (Brownfield Project) by M/s Shyam Steel Industries, located at Khasra No. 151/1, 151/2, 152/1, 152/2,152/3,152/4, 152/7,152/8, 166/1, 166/2,167/3/167/4 & 167/5, village Charoda, Dharsiwa, Raipur, Chhattisgarh- Consideration of Environmental Clearance.**

**[Proposal No. IA/CG/IND1/445881/2023; File No. IA-J-11011/307/2022-IA-II(IND-I)]
[Consultant: Pollution and Ecology Control Services; Valid upto 16.10.2025]**

- 50.14.1 The Member Secretary appraised the Committee that initially the PP/Consultant informed vide email dated 06.12.2023, their consent to attend the meeting and also sent the desired documents for consideration of proposal. Further, the Consultant vide email dated 14.12.2023 has informed that they will not be able to attend the meeting due to a medical emergency in the Family of Project Proponent. Taking into consideration the communication from the PP/Consultant, EAC is of the view that proposal shall be considered once Ministry receives the communication from PP/Consultant that ready to attend the meeting.

Consideration of Terms of Reference Proposals

Agenda No. 50.15

- 50.15 Expansion of Sponge Iron Manufacturing Plant from 100 TPD to 450 TPD (up gradation of existing 1x100 TPD kiln to 1x150 TPD kiln and installation of 2x150 TPD kiln) and Installation of 7 MW Captive Power Plant (4.5 MW from WHRB & 2.5 MW from AFBC) and 5 MVA Arc furnace to produce Ferro Alloys by M/s. RPA Ferro Industries Pvt. Ltd., located at Plot No. 267 to 273 & 562 to 568, Sy. No. 75(P), 77(P), 79(P), 76(P), 80(P) 84(P) of Belur Industrial Area, Dharwad, Karnataka– Consideration of TOR**

**[Proposal No. IA/KA/IND1/447342/2023; File No. IA-J-11011/378/2023-IA-II(IND-I)]
[Consultant: Environmental Health and Safety Consultants Private Limited; Valid Upto: 22.08.2024]**

- 50.15.1 M/s. RPA Ferro Industries Pvt. Ltd. has made an application online vide proposal no. IA/KA/IND1/447342/2023 dated 21.11.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking

detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

50.15.2 Name of the EIA consultant: M/s. Environmental Health and Safety Consultants Private Limited [List of ACOs with their Certificate / Extension Letter No: NABET/EIA/2124/RA 0241; valid till 22.08.2024, as on December 5, 2023].

Details submitted by Project proponent

50.15.3 The project of M/s. RPA Ferro Industries Pvt. Ltd., located at Plot No. 267 to 273 & 562 to 568, Sy. No. 75(P), 77(P), 79(P), 76(P), 80(P) 84(P) of Belur Industrial Area, Dharwad, Karnataka is for expansion of Sponge Iron Manufacturing Plant from 100 TPD to 450 TPD (up gradation of existing 1x100 TPD kiln to 1x150 TPD kiln and installation of 2x150 TPD kiln) and Installation of 7 MW Captive Power Plant (4.5 MW from WHRB & 2.5 MW from AFBC) and 5 MVA Arc furnace to produce Ferro Alloys.

50.15.4 Environmental site settings:

Sl. No.	Particulars	Details	Remarks																																								
i.	Total land	19.725 Acres	Land use: Karnataka Industrial Areas Development Board (KIADB) Land																																								
ii.	Land acquisition details as per Mo EF&CCO.M. Dated 7/10/2014	Land is allotted by Karnataka Industrial Areas Development Board (KIADB) in the name of M/s. RPA Ferro Industries Pvt. Ltd. Land documents are provided.																																									
iii.	Existence of habitation & involvement of R&R, if any.	<p>Project site: Belur Industrial Area</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Particulars</th> <th>Distance in Kms</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Mamigatti lamani Tanda</td> <td>0.54</td> <td>SE</td> </tr> <tr> <td>2</td> <td>Mamigatti Village</td> <td>2.44</td> <td>NE</td> </tr> <tr> <td>3</td> <td>Belur</td> <td>3.06</td> <td>NW</td> </tr> <tr> <td>4</td> <td>Kotur</td> <td>4.27</td> <td>NW</td> </tr> <tr> <td>5</td> <td>Narendra</td> <td>5.86</td> <td>E</td> </tr> <tr> <td>6</td> <td>Neeralakatti</td> <td>5.75</td> <td>N</td> </tr> <tr> <td>7</td> <td>Rampur</td> <td>6.06</td> <td>SW</td> </tr> <tr> <td>8</td> <td>Mugad</td> <td>6.21</td> <td>SW</td> </tr> <tr> <td>9</td> <td>Kallapur</td> <td>6.29</td> <td>W</td> </tr> </tbody> </table>	Sl. No.	Particulars	Distance in Kms	Direction	1	Mamigatti lamani Tanda	0.54	SE	2	Mamigatti Village	2.44	NE	3	Belur	3.06	NW	4	Kotur	4.27	NW	5	Narendra	5.86	E	6	Neeralakatti	5.75	N	7	Rampur	6.06	SW	8	Mugad	6.21	SW	9	Kallapur	6.29	W	Status of R&R. No R&R is involved.
Sl. No.	Particulars	Distance in Kms	Direction																																								
1	Mamigatti lamani Tanda	0.54	SE																																								
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9	Kallapur	6.29	W																																								

Sl. No.	Particulars	Details				Remarks
		10	Mangalagatti	6.31	NE	
		11	Shinganhalli	6.55	NW	
		12	Venkatapur	7.44	NW	
		13	Garag	8.08	N	
		14	Mulamuttal	8.31	NE	
		15	Kurabagatti	8.57	NE	
		16	Guledkoppa	8.67	NW	
iv.	Latitude and Longitude of all corners of the project site.	Points	Latitude	Longitude		
		A	15°30'1.66"N	74°55'1.04"E		
		B	15°30'8.74"N	74°55'1.40"E		
		C	15°30'8.26"N	74°55'13.57"E		
		D	15°30'1.19"N	74°55'13.32"E		
v.	Elevation of the project site	740 m				
vi.	Involvement of Forest land if any.	Status of stage I Forest Clearance: No forest land involved Area of the forest land involve: No forest land involved				
vii.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.)exists within the project site as well as study area	Project site: No water body exists within the project site Study area:				Authenticated HFL data of the water body shall be furnished. Not Applicable
		Water body	Distance	Direction		
		Lake near to Project Site	0.76 Km	NW		
		Lake near to Project Site	1.22 Km	N		
		Lake near Varavanagalavi	3.11 Km	SW		
		Veerapur Lake	4.47 Km	W		
viii.	Existence of ESZ/ESA/ national park/wild life sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. if any within the study area	Nil List of Reserved and protected forests: <ul style="list-style-type: none"> • Mommigatti Reserve Forest – 0.28 Km, S • Gugaratti Reserve Forest – 3.10 Km, NE • Chandragiri Reserve Forest – 5.91 Km, SW • Kumbaraganavi Reserve Forest – 8.42 				

Sl. No.	Particulars	Details	Remarks
		Km, SW	

50.15.5 The existing project was accorded Consent to Establish Vide letter No. KSPCB/CFE-CELL/RPA-FERRO/NEIA/2005-2006/28, dated: 19/04/2006 and CFE-Expansion Vide letter No. KSPCB/SEO/MINES/2010-11/246, dated: 10/12/2010 as the project was not covered under the EIA Notification, 1994. Consent to Operate for the existing unit was accorded by Karnataka State Pollution Control Board Vide letter No. AW-321707 dated 19/11/2020. The validity of CTO is up to 30/06/2024.

50.15.6 Implementation status as per CTE/CTO:

Sl. No.	Facilities	Units	As per CFE dated 19/04/2006 & 10/12/2010	Implementation Status as on date	Production as per CTO
1	60000 TPA Sponge Iron	2X100 TPD DRI Kiln	KSPCB/CFE-CELL/RPA-FERRO/NEIA/2005-2006/28, dated: 19/04/2006	Implemented only 1X100 TPD Kiln	30000 Tonnes / Year
2	Providing Common chimney to Kiln I and II	Common Chimney	KSPCB/CFE-CELL / RPAFIPL/EIA-101/2007-2008/165 Dt: 10/12/2007	Implemented	--
3	20 TPH Iron Ore Crushing Plant	20 TPH	No. KSPCB/SEO/MINES/2010-11/246, dated: 10/12/2010	Implemented	20 TPH

50.15.7 The unit configuration and capacity of proposed project is given as below:

Plant Equipment/ Facility	Existing facilities as per CFE dated 19/04/2006 & CFE –Exp dated 10/12/2010								Proposed Units		Final (Existing +Proposed)	
	Total (A+B)		Implemented (A)		Un-implemented (B)		As per CTO					
	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity
Sponge Iron	2X100 TPD	60000 TPA	1X100 TPD	30000 TPA	1X100 TPD	30000 TPA	1X100 TPD	33000 TPA	350 TPD	115500 TPA	450 TPD	148500 TPA
Iron Ore Crushing Plant	1X20 TPH	20 TPH	1X20 TPH	20 TPH	-	-	1X20 TPH	20 TPH	-	-	1X20 TPH	20 TPH
Power Plant	-	-	-	-	-	-	-	-	7 MW	7MW	7 MW	7MW
Arc Furnace	-	-	-	-	-	-	-	-	5MVA	5MVA	5MVA	5MVA

50.15.8 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

A. Sponge Iron Manufacturing

Sl. No.	Raw Material	Quantity required per annum			Source	Distance from site(Km)	Mode of Transportation
		Existing	Expansion	Total			
1	Iron ore fines	69300	242550	311850	Ballari Iron Ore mines through local suppliers	250 Km	By road through covered trucks
2	Coal	33000	115500	148500	Goa Port through local suppliers	130 Km	By road through covered trucks
3	Lime Stone	1650	5775	7425	Adjacent Districts through local suppliers	150 Km	By road through covered trucks

B. Ferro Alloys

Material	Total Consumption TPA	Source	Distance from site(Km)	Mode of Transportation
Ferro Silicon				
Quartz	7078.5	Local suppliers	150	Road
Char Coal	6649.5	In house	0	Road
Mill Scale	1716	Local suppliers	150	Road
Power (In Units)	35178000	In house	0	Grid
Silico Manganese				
Manganese Ore 40%-42%	6006	Ballari through local suppliers	200	Road
Manganese Ore 32%-36%	6864	Ballari through local suppliers	200	Road
Manganese Ore 24%-28%	5148	Ballari through local suppliers	200	Road
Coal	7293	Goa Port through local suppliers	130	Road
Lime Stone / Dolomite	4290	Adjacent Districts through local suppliers	150	Road
Power (In Units)	57502500	In house	0	Grid
Ferro Manganese				

Material	Total Consumption TPA	Source	Distance from site(Km)	Mode of Transportation
Manganese Ore 40%-42%	21037.5	Ballari through local suppliers	200	Road
Simn Slag	8415	Adjacent Districts through local suppliers	200	Road
Coal	11921.25	Goa Port through local suppliers	130	Road
Lime Stone / Dolomite	2805	Adjacent Districts through local suppliers	150	Road
Power (In Units)	33660000	In house	0	Grid
Ferro Chrome				
Chromite	21164	Local suppliers	50	Road
Coal	8177	Goa Port through local suppliers	130	Road
Lime Stone / Dolomite	3848	Adjacent Districts through local suppliers	150	Road
Power (In Units)	31746000	In house	0	Grid
Note: In Ferro Alloys Plant out of 4 products, only one product will be produced at a time based on market requirement.				

50.15.9 Existing Water requirement is 87 m³/day, water requirement is obtained from Karnataka Industrial Area Development Board (KIADB) and permission for the same has been obtained from KIADB vide letter No. K.I.A.D.B/DWD/AS/1906/07-08 dated 22.10.2007. The water requirement for the proposed expansion project is estimated as 271 m³/day, The fresh water requirement will be obtained from the KIADB. The water permission will be obtained from KIADB.

50.15.10 Existing power requirement of 0.5 MW is obtained from HESCOM. The power requirement for the proposed expansion project is estimated as 2 MW, which will be met from 7 MW Captive Power Plant.

50.15.11 The capital cost of the project is Rs 115 Crores. The employment generation from the proposed project / expansion is 290 Nos.

50.15.12 Summary of violation under EIA, 2006/court case/show cause/direction related to the project under consideration is as follows:

Sl. No.	Case No.	Description	Present status	Remarks
1	NCLT Case No. CP (IB) No.3823/MB-V/2019	This is an application bearing IA No. 1301/MB-V/2023 filed by Mr. Kumar Rajan, for	Now, as per the order Shree Padmanabh Ispat Pvt. Ltd is holding the 100%	Uploaded

Sl. No.	Case No.	Description	Present status	Remarks
		approval of the Resolution Plan filed by Shree Padmanabh Ispat Pvt. Ltd. for RPA Ferro Industries Private Limited for a sale amount of Rs. 25,41,98,643/- and approved by 100% voting shares of the Committee of Creditors.	shares of RPA Ferro Industries Private Limited. Shri. P.V.S Rao, the applicant is Director of the Shree Padmanabh Ispat Pvt. Ltd. However, all the approvals will be obtained in the name of RPA Ferro Industries Private Limited.	

50.15.13 Proposed Terms of Reference: [Baseline data collection period: October 2023 to December 2023]

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
A. Air				
a. Meteorological parameter	Solar radiation (srd) (watt / sq. m), relative humidity (hmd) (%), temperature (temp) (°c), rainfall (rnf) (mm), wind direction (wnd) (deg), wind gust (wng) (km/hr), wind speed (wns) km/hr, dew point (dew) (°c).	1	Once	-
b. AAQ parameters	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃ , Pb, NH ₃ , C ₆ H ₆ , As, Ni, BaP	10	24 Hours, Twice a week for 3 months	-
B. Noise	Monitoring of Ambient Noise Level [Leq (Day) and Leq (Night)]	8	24 Hours, Once in Study Period	-
C. Water				
a. Surface water	pH, Temperature, Colour, Total Suspended Solids, Total Dissolved Solids, Total Hardness, Alkalinity, Nitrate as NO ₃ , Total Phosphate as PO ₄ , Chloride as Cl, Sulphate as SO ₄ , Total Nitrogen, Total Kjeldahl Nitrogen, Turbidity, Conductivity, Anionic Detergents, Ammonical Nitrogen, Sodium, Sodium	7	Once in Study Period	-

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
	Absorption Ration (SAR), Potassium, Calcium as Ca, Magnesium as Mg , Fluoride as F, Manganese as Mn , Residual Sodium Carbonate , Silver as Ag, Lead as Pb , Arsenic as As , Cadmium as Cd, Total Chromium, Chromium Hexavalent, Copper as Cu, Zinc as Zn, Iron as Fe, Mercury as Hg, Nitrite, Carbonate, Bicarbonate, Phenolic compounds, Oil and Grease, Total Coliform, Fecal Coliform, E-Coli			
b. Ground water quality parameters	pH, Temperature, Colour, Dissolve Oxygen, BOD (3 days @27°C), Chemical Oxygen Demand, Turbidity, Electrical Conductivity, Total Suspended Solids, Total Dissolved Solids, Total Hardness, Oil & Grease, Alkalinity, Anionic Detergents, Ammonical Nitrogen, Nitrate as NO ₃ , Chloride as Cl, Sulphate as SO ₄ , Total Nitrogen, Total Kjeldahl Nitrogen, Potassium, Calcium as Ca, Magnesium as Mg, Fluoride as F, Phenolic Compounds, Manganese as Mn, Residual Free Chlorine, Silver as Ag, Lead as Pb, Boron, Selenium, Cyanide, Mercury as Hg, Arsenic as As, Cadmium as Cd, Hexavalent Chromium, Copper as Cu, Zinc, Iron as Fe, Nitrite, Carbonate, Bicarbonate, Sodium, Sodium absorption ratio, Total Pesticide, Total phosphate, Poly Aromatic Hydrocarbon (PAH), Total Coliform, Fecal Coliform, E-Coli	9	Once in Study Period	
D. Land				
a. Soil quality b. Land use	Composite Sampling and Analysis pH, Color, Texture, Sand (%), Silt (%), Clay (%), Bulk density (gm/cc), Conductivity (µs/cm), Organic carbon (%),Moisture Content (%),	9	Once in Study Period	

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
	Organic Matter (%), Soil salinity, Available Nitrogen (Kg/Ha), Available Phosphorous (Kg/Ha), K+(kg/ha), Na+(mg/100g), Ca (mg/100g), Mg(mg/100g), SAR (mg/100g), SO ₄ (mg/100g), Cu(mg/100g), Mn(mg/100g), Cl (mg/100g), Zn mg/kg, Boron (mg/100g)			
E. Biological a. Aquatic b. Terrestrial	Through field visit during the study period once	13	Once in Study Period	
F. Socio-economic parameters	Based on the House Holds	7	Once in Study Period	

Written submission by the PP:

50.15.14 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 15.12.2023 submitted the following information:

Sl. No.	Details sought	Reply by PP
1	Revised Layout Plan with coloured index map	The revised layout plan with coloured index map is submitted.
2	Revised Presentation	The revised presentation is submitted.
3	Mitigation measures for Lake	<p>There are no rivers flowing at distance of 10 Km, Malaprabha River is flowing at a distance of 24.92 Km from the project site.</p> <p>Mitigation Measures undertaken for conservation of Water bodies:</p> <ul style="list-style-type: none"> • There is one Lake located at a distance of 70 m from the project site • The Environmental Protection measures such as existing industry has 1 No of ESP with stack height of 60 m and for proposed expansion 3 No's of 4 field ESPs (Electro Static Precipitator) with efficiency of 99.8 % will be provided to Rotary Kilns, WRHB, AFBC boiler to capture the fly ash and connected to stack height of 60 m & 70 m 2 Nos. of Wet scrappers will be provided for proposed 2x150 kilns to collect ash/dust. • There are 5 Nos. of Bag filters in the existing industry with a stack height of 30 m each and for the expansion project further 4 Nos. of Bag Filters will be

		<p>provided to control fugitive dust emissions in Iron ore circuit, coal circuit, cooler discharge & Product Separation area.</p> <ul style="list-style-type: none"> • Covered conveyers, dust suppression systems, internal roads, mechanical dust sweepers, and Dry fog system, water cannon spray system will be provided and operated duly ensuring compliance with the particulate emission norms of <math><30 \text{ mg /Nm}^3</math>. • Interlocking system will be provided to ESPs and whenever the Particulate emission exceeds the emission norm, the raw material feed to the unit will stop. Consequently, there will be no production in the unit till the ESP is rectified. • Automated Lime dosing will be provided to bring down the SOx emission to within 200 mg/Nm³. • Low NOx burners with 3-stage combustion, flue gas recirculation and auto combustion system will be provided to ensure NOx emission within 150 mg/Nm³ • Ash will be stored in silos only and there will not be any open storage of ash. • Net resultant GLCs during operation of the project will be within the National Ambient Air Quality Standards. • The Lake will be adopted and development, desiltation and plantation around the lake will be carried out. • There is no extraction of ground water for the project and the source of water will be from KIADB. • Zero liquid discharge will be maintained and no effluent will be discharged outside the plant
4	Land allocation letter	The land allocation letter from KIADB is submitted.

Deliberation by the Committee

50.15.15 The Committee noted the following:

- i. The instant proposal is for expansion of Sponge Iron Manufacturing Plant from 100 TPD to 450 TPD (up gradation of existing 1x100 TPD kiln to 1x150 TPD kiln and installation of 2x150 TPD kiln) and Installation of 7 MW Captive Power Plant (4.5 MW from WHRB & 2.5 MW from AFBC) and 5 MVA Arc furnace to produce Ferro Alloys.
- ii. The existing project was accorded Consent to Establish Vide letter No. KSPCB/CFE-CELL/RPA-FERRO/NEIA/2005-2006/28, dated: 19/04/2006 and CFE-Expansion Vide letter No. KSPCB/SEO/MINES/2010-11/246, dated: 10/12/2010 as the project was not covered under the EIA Notification, 1994. Consent to Operate for the existing unit was accorded by Karnataka State Pollution Control Board Vide letter No. AW-321707 dated 19/11/2020. The validity of CTO is up to 30/06/2024. The EAC deliberated on the existing project and confirmed that EC was not required for the existing project.

- iii. The EAC took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
- iv. PP submitted that total land is 19.725 Acres. The land is allotted by Karnataka Industrial Areas Development Board (KIADB) in the name of M/s. RPA Ferro Industries Pvt. Ltd.
- v. Mamigatti lamani Tanda Village is located at a distance of 0.54 km (SE) from the project site along with other sensitive areas such as RF/PF (Mommigatti Reserve Forest – 0.28 Km, S) and other villages within the study area of the project site. The EAC is of the opinion that PP shall prepare and include in the EIA/EMP Report the environmental safeguard measures to minimise the impact of the project activities on these sensitive areas.
- vi. There are lakes at a distance of 0.76 km in NW and at 1.22 km in North along with other water bodies within the study area of the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be prepared and submitted.
- vii. Existing Water requirement is 87 m³/day. The water requirement for the proposed expansion project is estimated as 271 m³/day, which is proposed to be obtained from the KIADB. The EAC is of the opinion that PP shall obtain necessary permission in this regard.
- viii. It is reported that there is NCLT Case No. CP (IB) No.3823/MB-V/2019 related to an application bearing IA No. 1301/MB-V/2023, for approval of the Resolution Plan filed by Shree Padmanabh Ispat Pvt. Ltd. for RPA Ferro Industries Private Limited for a sale amount of Rs. 25,41,98,643/- and approved by 100% voting shares of the Committee of Creditors. Now, as per the order Shree Padmanabh Ispat Pvt. Ltd is holding the 100% shares of RPA Ferro Industries Private Limited. Shri. P.V.S Rao, the applicant is Director of the Shree Padmanabh Ispat Pvt. Ltd. However, all the approvals will be obtained in the name of RPA Ferro Industries Private Limited. The EAC deliberated on the case facts and opined that the case is not related to the any environmental concerns pertaining to the proposed proposal.
- ix. The EAC deliberated the written submission and found in order.

Recommendations of the Committee

50.15.16 After deliberations, the Committee **recommended** the project proposal **subject to uploading the written submission on Parivesh portal** for prescribing following specific ToRs for undertaking detailed EIA and EMP study alongwith Public Hearing in addition to the generic ToRs enclosed at **Annexure-1** read with additional ToRs at **Annexure-2**:

- (i) Mamigatti lamani Tanda Village is located at a distance of 0.54 km (SE) from the project site along with other sensitive areas such as RF/PF (Mommigatti Reserve Forest – 0.28 Km, S) and other villages within the study area of the project site. Proponent shall prepare

appropriate environmental safeguard measures to minimise the impact of the project activities on these sensitive areas.

- (ii) There are lakes at a distance of 0.76 km in NW and at 1.22 km in North Rana along with other water bodies within the study area of the project site. The PP shall include in the EIA/EMP report suitable steps /conservation plan along with contouring (close intervals), Run -off calculations, disposal etc. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be prepared and included in EIA/EMP Report.
- (iii) Existing Water requirement is 87 m³/day. The water requirement for the proposed expansion project is estimated as 271 m³/day, which is proposed to be obtained from the KIADB. PP shall obtain necessary permission in this regard.
- (iv) PP shall engage a reputed institution for carrying out study for the air pollution control at the project site.
- (ix) Project proponent shall prepare layout plan showing all internal roads minimum 6m width and 9m turning radius with proper looping for smooth traffic flow, 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. The PP shall prepare 3 different drawings. Drawing No 1 should include a layout with Road Networking, Traffic Chanalization, All Plant structures, Parking with a detailed area statement for each element, Indexing with proper color code and Naming at Bottom right corner. Drawing No 2 include a layout with road networking, Existing and proposed Green belt with calculations and indexing with proper color code along with nos of trees in existence and proposed trees. Drawing No 3 includes a layout with road networking, contour drawing and drainage disposal system and rain water harvesting system with calculations, Further the disposal of storm drain point with invert level. Drawing include indexing with color code for drainage pipe lines. The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the E.I.A., wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc.
- (x) The Stack details and flow rate of exit gas through the stacks must be included in the EIA/EMP Report.
- (xi) The GLC modelling for CO emission from kilns and furnaces under worst-case scenario must be included in the EIA/EMP report.

Agenda No. 50.16

50.16 Expansion of Steel Plant – DRI Kilns (Sponge Iron from 60,000 TPA to 4,06,500 TPA), WHRB based Power Plant from 4 MW to 34 MW, FBC based Power Plant from 4 MW to 24 MW, Induction Furnaces along with CCM & LRF (Hot Billets / MS Billets / Ingots from

56,000 TPA to 3,72,800 TPA), New Rolling Mill (Rolled Product) – 3,96,000 TPA, Coal Gasifier for Reheating Furnace – 3,500 NM³/Hr., New Ferro Alloys Unit (2 x 9 MVA) to produce FeSi - 14,000 TPA / FeMn - 50,400 TPA / SiMn -28,800 TPA / FeCr - 30,000 TPA / Pig Iron - 50,400 TPA, Brick Manufacturing unit - 10,000 Bricks /day to 50,000 Bricks/day, New Briquetting unit 200 Kg/ Hr, Dry Coal washery Unit - 3,30,300 TPA, Slag Crushing Unit - 40,000 TPA by M/s Maa Kali Alloys Udyog Private Limited, located at Villages: Pali & Delari, Tehsil & District: Raigarh, Chhattisgarh – Consideration of TOR.

[Proposal No. IA/CG/IND1/448966/2023; File No. IA-J-11011/382/2023-IA-II(IND-I)]

[Consultant: Pioneer Enviro Consultants Private Limited; Valid upto : 21.09.2025]

- 50.16.1 M/s. Maa Kali Alloys Udyog Private Limited has made an application online vide proposal no. IA/CG/IND1/448966/2023 dated 24.11.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous or non ferrous), 2(a) Coal Washeries and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 50.16.2 Name of the EIA consultant: M/s. Pioneer Enviro Consultants Private Limited [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2225/RA 0282; valid upto 21.09.2025, as on December 5, 2023].

Details submitted by Project proponent

- 50.16.3 The project of M/s. Maa Kali Alloys Udyog Private Limited, located at Villages: Pali & Delari, Tehsil & District: Raigarh, Chhattisgarh is for expansion of Steel Plant – DRI Kilns (Sponge Iron from 60,000 TPA to 4,06,500 TPA), WHRB based Power Plant from 4 MW to 34 MW, FBC based Power Plant from 4 MW to 24 MW, Induction Furnaces along with CCM & LRF (Hot Billets / MS Billets / Ingots from 56,000 TPA to 3,72,800 TPA), New Rolling Mill (Rolled Product) – 3,96,000 TPA, Coal Gasifier for Reheating Furnace – 3,500 NM³/Hr., New Ferro Alloys Unit (2 x 9 MVA) to produce FeSi - 14,000 TPA / FeMn - 50,400 TPA / SiMn -28,800 TPA / FeCr - 30,000 TPA / Pig Iron - 50,400 TPA, Brick Manufacturing unit - 10,000 Bricks /day to 50,000 Bricks/ day, New Briquetting unit 200 Kg/ Hr, Dry Coal washery Unit - 3,30,300 TPA, Slag Crushing Unit - 40,000 TPA.
- 50.16.4 The proposal was considered during the 50th meeting of the EAC for Industry-I sector held on 13th – 15th December, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

- 50.16.5 The Committee noted the following:
1. The EAC discussed the existing project, and the Project Proponent revealed about issuance of a showcase notice (SCN) against the project. However, it was noted that the PP did

not provide the details of the SCN in the application, nor did they address it in the proposal presentation. The EAC recommends that the PP shall disclose all relevant details concerning the project and submit a revised application.

2. The EAC, reviewing the Decision Support System (DSS) information for the project site on PARIVESH, noted that a portion of the project is situated within forest land. Despite this, the Project Proponent (PP) contends that the designated project land is privately owned and does not involve forest land. In light of this, the EAC suggests that the PP shall obtain a certificate from the State Forest department, affirming that the proposed project site does not fall within the forest area. The certificate should include geographical coordinates of the proposed project site and shall be accompanied with an authenticated map indicating the distance from the nearest forest area to the project site.
3. The PP reported that there will be felling / translocation of trees in the proposed project area. The EAC advised to submit the complete details including the status of permission obtained from the Competent Authority.
4. The PP reported that existing project was accorded Consent to Establishment (CTE) has been obtained from Chhattisgarh Environment Conservation Board (CECB) vide No.3657/TS/CECB/2005 Raipur, dt. 04.08.2005 for Sponge Iron Plant (2 x 100 TPD DRI Kilns) capacity of – 60,000 TPA, WHRB Power Plant -4.0 MW, FBC Power Plant - 4.0 MW & Induction Furnace – 56,000 TPA. Further, PP informed that prior Environment Clearance was not applicable to the project which were having project cost less than Rs. 100 Crores as per EIA notification 1994 and Project cost of above consented project was Rs. 64 Crores. The EAC is of the opinion that PP shall submit credible documents with justification in this regard.
5. The EAC noted that Pali (V) Village is located at a distance of 0.17 km, Urdana RF is at 0.6 km along with other sensitive areas within the study area of the project site. The EAC is of the opinion that PP shall submit the environmental safeguard measures to minimise the impact of the project activities on these sensitive areas.
6. Gerwani Nala is at a distance of 1.6 km in North along with other water bodies within the study area of the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be prepared and submitted.
7. The EAC advised PP/Consultant to represent the case again with revised proposal presentation. In view of the same, the EAC opined that PP needs to update the PFR Report with all the desired details and shall submit the revised PFR report for consideration of the proposal.
8. The EAC agreed to the request of PP/Consultant and allowed them to reappear after the revision of the application incorporating the desired information.

Recommendations of the Committee:

- 50.16.6 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** to address the shortcomings enumerated at para no. 50.16.5 above. The proposal may be considered after submission of the requisite information.

Agenda No. 50.17

- 50.17 Proposed Expansion and Modification of the existing sponge iron plant into ‘Integrated Steel Plant’ with increase in project area, increase in production capacity of the sponge iron plant (one kiln with preheater technology) and by adding mineral beneficiation plant, pelletization plant, induction furnace, submerged arc furnace, billet caster, rolling mill, pipe mill, galvanizing plant, oxygen plant, cement grinding unit and captive power plant (WHRB and AFBC) by M/s Vanya Steels Private Limited, located at:-Hirebaganal Village, Koppal Taluka and District, Karnataka–Consideration of TOR.**

**[Proposal No. IA/KA/IND1/453383/2023, File No. IA-J-11011/269/2007-IA-II(IND-I)]
[Consultant: Ecomen Laboratories Pvt. Ltd.; Valid upto: 10.03.2026]**

- 50.17.1 M/s. Vanya Steels Pvt. Ltd. has made an application online vide proposal no. IA/KA/IND1/453383/2023, dated 27.11.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous or non ferrous), 2(b) Mineral Beneficiation, 3(b) Cement Plants and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 50.17.2 The proposal was considered during the 50th meeting of the EAC for Industry-I sector held on 13th – 15th December, 2023.
- 50.17.3 Based on the deliberation, the PP requested for withdrawal of the instant application due to some changes required to be done in the Project Feasibility Report.

Written submission by the PP:

- 50.17.4 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 15.12.2023 through email dated 15.12.2023 formally requested for withdrawal of the instant proposal.

Deliberations by the Committee

- 50.17.5 The Committee noted the following:

1. The EAC noted that PP has requested for withdrawal of the instant application due to some changes required to be done in the Project Feasibility Report.
2. The EAC advised PP/Consultant to represent the case again with revised proposal presentation. In view of the same, the EAC opined that PP needs to update the PFR Report with all the desired details and shall submit the revised PFR report for consideration of the proposal.
3. The EAC agreed to the request of PP/Consultant and allowed them to reappear with a fresh application incorporating the desired information.

Recommendations of the Committee:

- 50.17.6 In view of the foregoing and after detailed deliberations, the committee recommended to **return the proposal in its present form** to address the shortcomings enumerated at para no. 50.17.5 above.

Agenda No. 50.18

- 50.18 Expansion of Sponge Iron Manufacturing Plant from 100 TPD (2 x 50 TPD) to 500 TPD and Installation of 10 MW Captive Power Plant (WHRB 6 MW & AFBC 4 MW) by M/s Sai Pavan Ispat Private Limited, located at Sy. Nos. 484A, 478B, 477C, 481/1 and 481/2 of Kuditini Village, Ballari Taluk and District, Karnataka – Consideration of TOR**

**[Proposal No. IA/KA/IND1/447169/2023, File No. IA-J-11011/375/2023-IA-II(IND-I)]
[Consultant: Environmental Health and Safety Consultants Private Limited; Valid upto: 10.08.2025]**

- 50.18.1 M/s. Sai Pavan Ispat Pvt. Ltd. has made an application online vide proposal no. IA/KA/IND1/447169/2023 dated 23.11.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 50.18.2 Name of the EIA consultant: M/s. Environmental Health and Safety Consultants Private Limited [List of ACOs with their Certificate / Extension Letter No: NABET/EIA/2124/RA 0241; valid till 22.08.2024, as on December 5, 2023].

Details submitted by Project proponent

50.18.3 M/s Sai Pavan Ispat Private Limited, located at Sy. Nos. 484A, 478B, 477C, 481/1 and 481/2 of Kuditini Village, Ballari Taluk and District, Karnataka is for expansion of Sponge Iron Manufacturing Plant from 100 TPD (2 x 50 TPD) to 500 TPD and Installation of 10 MW Captive Power Plant (WHRB 6 MW & AFBC 4 MW).

50.18.4 Environmental site settings:

Sl. No.	Particulars	Details				Remarks
1	Total Land	10.93 Ha Existing Plant : 5.87 Ha Proposed Expansion: 5.06 Ha				Land use: Converted for industrial use
2	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	There is no land acquisition involved in this project, the entire land is in the name of M/s. Sai Pavan Ispat Pvt. Ltd. and which is already converted to Industrial Purpose				-
3	Existence of habitation & involvement of R&R, if any.	Project site: No habitation exists in the project site Study area				Status of R&R. No R&R is involved
		Sl. No.	Particulars	Distance in Kms	Direction	
		1	Timmalapura	0.92	NW	
		2	Kudatini	2.40	SE	
4	Latitude and Longitude of all corners of the project site.	Point	Latitude	Longitude		
		A	15°12'34.80"N	76°44'4.09"E		
		B	15°12'41.01"N	76°44'4.60"E		
		C	15°12'42.24"N	76°44'5.97"E		
		D	15°12'43.18"N	76°44'1.44"E		
		E	15°12'44.51"N	76°43'53.31"E		
		F	15°12'36.69"N	76°43'53.26"E		
		G	15°12'36.54"N	76°43'53.61"E		
		H	15°12'35.81"N	76°43'53.14"E		
		I	15°12'35.68"N	76°43'53.49"E		
		J	15°12'33.38"N	76°43'53.48"E		
		K	15°12'30.04"N	76°43'59.28"E		
L	15°12'35.48"N	76°44'0.82"E				
5	Elevation of the project site	492 m above mean sea level				
6	Involvement of Forest land if any	Status of stage I Forest Clearance: No forest land involved Area of the forest land involve: No forest land involved				

Sl. No.	Particulars	Details	Remarks																		
7	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	<p>Project site: No water body exists within the project site</p> <p>Study area:</p> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Tungabhadra High Level Canal</td> <td>0.58 Km</td> <td>N</td> </tr> <tr> <td>Kuditini Lake</td> <td>3.10 Km</td> <td>SE</td> </tr> <tr> <td>Kanigala Halla</td> <td>4.5 Km</td> <td>SW</td> </tr> <tr> <td>Daroji Lake</td> <td>5.35Km</td> <td>NW</td> </tr> <tr> <td>Nari Halla</td> <td>8.5 Km</td> <td>W</td> </tr> </tbody> </table>	Water body	Distance	Direction	Tungabhadra High Level Canal	0.58 Km	N	Kuditini Lake	3.10 Km	SE	Kanigala Halla	4.5 Km	SW	Daroji Lake	5.35Km	NW	Nari Halla	8.5 Km	W	The NOC has been obtained from Tungabhadra Board, Irrigation Branch, HLC No.2 Sub Division, Toranagallu on 23.11.2023 vide letter No. SDO/HLC No.2/Sub-Div./TNGL/2023-24/223E for Tungabhadra Canal flowing at a distance of 0.58 Km from project site
Water body	Distance	Direction																			
Tungabhadra High Level Canal	0.58 Km	N																			
Kuditini Lake	3.10 Km	SE																			
Kanigala Halla	4.5 Km	SW																			
Daroji Lake	5.35Km	NW																			
Nari Halla	8.5 Km	W																			
8	Existence of ESZ/ESA/ national park/wild life sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. if any within the study area	<p>Study area</p> <p>Name of the ESZ/ ESA : Daroju Bear Sanctuary</p> <p>Status of Notification: Final Notification issued by MoEF & CC on 25.09.2019.</p> <p>Distance of project from ESZ/ESA: 8.38 Km</p> <p>Authenticated map of ESZ projecting distance of ESZ from project site: Not applicable</p> <p>Status of NBWL approval: Not Applicable</p> <p>List of Reserved and protected forests:</p> <ul style="list-style-type: none"> • Torangal Reserve Forest - 2.95 Km (SW) • Daroju Reserve Forest - 6.59 Km (W) • Chikkantapur Reserve Forest - 7.4 Km (SW) 																			

50.18.5 The existing project was accorded Environmental Clearance vide letter No. SEIAA 73 IND 2008 dated 20.03.2009. Consent to Operate for the existing unit was accorded by Karnataka State Pollution Control Board vide letter no. AW-328075 dated: 16.11.2021. The validity of CTO is up to 30.06.2026.

50.18.6 Implementation status of the existing EC:

Sl. No.	Facilities	Units	As per EC dated 20.03.2009	Implementation Status on	Production as per CTO
1	Sponge Iron Manufacturing	TPD	Manufacturing of Sponge Iron with pre-heating technology – 100 TPD	Fully implemented	30,000 TPA (100 TPD)

50.18.7 The unit configuration and capacity of existing and proposed project is given as below:

Sl. No.	Plant Equipm ent/ facility	Existing Facilities as per EC dated 20.03.2009								Proposed units		Final (Existing + proposed)		Remark
		Total (A+B)		Implement ed		Un- implem ented		As per CTO						
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	
1.	Sponge Iron	Sponge Iron manufacturing	33000 TPA	Sponge Iron manufacturing	33000 TPA	-	-	Sponge Iron manufacturing	33000 TPA	Sponge Iron manufacturing	132000 TPA	Sponge Iron manufacturing	165000 TPA	
2.	Captive Power Plant	-	-	-	-	-	-	-	-	Captive Power Plant	10 MW	Captive Power Plant	10 MW	

50.18.8 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

Sl. No.	Raw material	Quantity required per annum			Source	Distance from site	Mode of Transportation
		Existing	Expansion	Total			
1	Iron Ore	66,000	2,64,000	3,30,000	Through E – Action from Government of Karnataka from local suppliers i.e. Vedanta Ltd. Chitradurga, M/s. SMIORE Sandur Ballari, M/s. NMDC Ltd, Sandur, Ballari	60 Km	Road

Sl. No.	Raw material	Quantity required per annum			Source	Distance from site	Mode of Transportation
		Existing	Expansion	Total			
2	Coal	28,050	1,12,200	1,40,250	Imported from Mangalore Port through suppliers i.e.,	500 Km	Road
3	Lime Stone	1650	6600	8,250	M/s. Adani Enterprises Ltd., Nellore, Andhra Pradesh, M/s. Sri Lakshmi Venkateshwara Traders & Logistics, Ballari & M/s. Delta Global Resources Pvt. Ltd., Mangalore Karnataka	200 Km	Road

50.18.9 Existing Water requirement is 60 m³/day, water requirement is obtained from private water tankers. The water requirement for the proposed project is estimated as 665 m³/day, out of which 660 m³/day of water will be treated water from Ballari Sewage Treatment Plant, Ballari Municipal Authority & 5 m³/day will be met from the Bore well. The request letter has been submitted to Ballari City Municipal Corporation on 11.09.2023 for supply of treated water.

50.18.10 Existing Power requirement of 0.5 MW is obtained from GESCOM. The power requirement for the proposed project is estimated as 2.0 MW which will be sourced from internal 10 MW Captive Power Plant.

50.18.11 The capital cost of the project is Rs 184.70 Crores (Existing 19.70 Cores + Proposed 165 Crores). The employment generation from the proposed / expansion is 237 No's.

50.18.12 Court case related to the project are as follows.

Sl. No	Case No.	Description	Present status	Remark
1	W.P.No. 100312/2021 (GM – RES) at High Court of Karnataka, Dharwad Bench	Earlier management of the industry has availed the Bank Loan of Rs. 5.36 Crores from Canara Bank on 29.01.2009 by hypothecating the property and assets of the industry. The Bank has issued Auction Sale	Disposed on 06.04.2021	Copy uploaded

Sl. No	Case No.	Description	Present status	Remark
		Notice and the same was cancelled by the Court and request of the One Time Settlement has been allowed.		
2	W.A. No. 100103/2021 (GM-RES) C/W W.A.No. 100109/2021 (GM-RES) at High Court of Karnataka, Dharwad Bench.	Earlier management of the industry has availed the Bank Loan of Rs. 5.36 Crores from Canara Bank on 29.01.2009 by hypothecating the property and assets of the industry. Based on the requests of industry, the Bank has given an opportunity of One Time Settlement of Rs. 15.20 Crores and the same has been upheld in the order. As per the Court order, the industry has paid the dues to the Bank on 01.07.2021	Disposed on 13.07.2021	Copy uploaded
3	O.S.709/2018 at Principal Civil Judge and JMFC Court, Ballari	This case is filed by the industry pertaining to duplication of digital signature and misuse of Company administration of the Managing Director. The Company has filed case against Mr. Rajashekar and others.	Pending and the next hearing on 18.12.2023	Copy of the sale deed uploaded

50.18.13 Proposed Terms of Reference: [Baseline data collection period: October 2023 to December 2023]

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
A. Air				
a. Meteorological parameter	Solar radiation (srd) (watt / sq. m), relative humidity (hmd) (%), temperature (temp) (°c), rainfall (rnf) (mm), wind direction (wnd) (deg), wind gust (wng) (km/hr),	1	Once	-

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
	wind speed (wns) km/hr), dew point (dew) (°c).			
b. AAQ parameters	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃ , Pb, NH ₃ , C ₆ H ₆ , As, Ni, BaP.	10	24 Hours, Twice a week for 3 months	-
B. Noise	Monitoring of Ambient Noise Level [Leq (Day) and Leq (Night)]	10	24 Hours, Once in Study Period	-
C. Water				
a. Surface water	pH, Temperature, Colour, Dissolve Oxygen, BOD (3 days @27°C), Chemical Oxygen Demand, Turbidity, Electrical Conductivity, Total Suspended Solids, Total Dissolved Solids, Total Hardness, Oil & Grease, Alkalinity, Anionic Detergents, Ammonical Nitrogen, Nitrate as NO ₃ , Chloride as Cl, Sulphate as SO ₄ , Total Nitrogen, Total Kjeldahl Nitrogen, Potassium, Calcium as Ca, Magnesium as Mg, Fluoride as F, Phenolic Compounds, Manganese as Mn, Residual Free Chlorine, Silver as Ag, Lead as Pb, Mercury as Hg, Arsenic as As, Cadmium as Cd, Hexavalent Chromium, Copper as Cu, Zinc, Iron as Fe, Nitrite, Carbonate, Bicarbonate, Sodium, Total Pesticide, Total phosphate, Poly Aromatic Hydrocarbon (PAH), Total Coliform, Fecal Coliform, E-Coli.	5	Once in Study Period	-
b. Ground water quality parameters	pH, Temperature, Colour, Total Suspended Solids, Total Dissolved Solids, Total Hardness, Alkalinity, Nitrate as NO ₃ , Total Phosphate as	8	Once in Study Period	-

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
	PO ₄ , Chloride as Cl, Sulphate as SO ₄ , Total Nitrogen, Total Kjeldahl Nitrogen, Turbidity, Conductivity, Anionic Detergents, Ammonical Nitrogen, Sodium, Sodium Absorption Ration (SAR), Potassium, Calcium as Ca, Magnesium as Mg , Fluoride as F, Manganese as Mn , Residual Sodium Carbonate , Silver as Ag, Lead as Pb , Arsenic as As , Cadmium as Cd, Total Chromium, Chromium Hexavalent, Copper as Cu, Zinc as Zn, Iron as Fe, Mercury as Hg, Nitrite, Carbonate, Bicarbonate, Phenolic compounds, Oil and Grease, Total Coliform, Fecal Coliform, E-Coli.			
D Land				
a. Soil quality b. Land use	Composite Sampling and Analysis pH, Color, Texture, Sand (%), Silt (%), Clay (%), Bulk density (gm/cc), Conductivity (µs/cm), Organic carbon (%),Moisture Content (%), Organic Matter (%), Soil salinity, Available Nitrogen (Kg/Ha), Available Phosphorous (Kg/Ha), K+(kg/ha), Na+(mg/100g), Ca (mg/100g), Mg(mg/100g), SAR (mg/100g), SO ₄ (mg/100g), Cu(mg/100g), Mn(mg/100g), Cl (mg/100g), Zn mg/kg, Boron (mg/100g)	8	Once in Study Period	-
Biological a. Aquatic b. Terrestrial	Through field visit during the study period once	13	Once in Study Period	-
Socio-economic parameters	Based on the House Holds	10	Once in Study Period	-

Written submission by the PP:

50.18.14 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 15.12.2023 submitted the following information:

S.No.	Details sought by EAC	Reply by PP
1	Revised Layout Plan with coloured index map	The revised layout plan with coloured index map is submitted.
2	Revised Greenbelt Layout Plan covering all the sides	The revised layout plan showing Greenbelt area is submitted.
3	Contour Map with drainage network and road network	The Revised Contour Map is submitted.
4	Revised water Balance	The revised water balance is worked out for the project and the total water requirement is 350 KLD and submitted.
5	Undertaking for not Violating CTO production capacity	The Undertaking for not violating CTO production capacity i.e, 30000 TPA of sponge iron production is submitted.
6	Undertaking for Housekeeping & Court cases	The undertaking for maintaining good housekeeping and No court cases pending related to environmental issues against project is submitted.
7	Revised TOR PPT	The revised TOR PPT with revised CTO production capacity and revised layout plan is submitted.

Sl. No	Case No.	Earlier Description	To be read as	Present status
	O.S.709/2018 at Principal Civil Judge and JMFC Court, Ballari	This case is pertaining to Land Registration where the Industry has purchased the land legally after payment of full consideration as agreed and registered on 27.02.2020. Further, the legal heirs of the land had questioned the sale of the land to the industry in the Court	This case is filed by the industry pertaining to duplication of digital signature and misuse of Company administration of the Managing Director. The Company has filed case against Mr. Rajashekar and others.	Pending and the next hearing on 18.12.2023. Copy of the court order sheet submitted.

Deliberation by the Committee

50.18.15 The Committee noted the following:

- i. The instant proposal is for expansion of Sponge Iron Manufacturing Plant from 100 TPD (2 x 50 TPD) to 500 TPD and Installation of 10 MW Captive Power Plant (WHRB 6 MW & AFBC 4 MW).
- ii. The existing project was accorded Environmental Clearance vide letter No. SEIAA 73 IND 2008 dated 20.03.2009. Consent to Operate for the existing unit was accorded by Karnataka State Pollution Control Board vide letter no. AW-328075 dated: 16.11.2021. The validity of CTO is up to 30.06.2026.
- iii. The EAC took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
- iv. PP submitted that total land is 10.93 Ha [Existing Plant : 5.87 Ha, Proposed Expansion: 5.06 Ha]. Land is already acquired and converted for industrial use.
- v. Timmalapura Village is at a distance of 0.92 km (NW) from the project site along with other sensitive areas exists within the study area of the project site. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact due to the project activities on these sensitive areas.
- vi. Tungabhadra High Level Canal is at a distance of 0.58 km in North of the project site along with other water bodies within the study area of the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be prepared and submitted.
- vii. Existing Water requirement is 60 m³/day. The water requirement for the proposed project is estimated as 665 m³/day, out of which 660 m³/day of water will be treated water from Ballari Sewage Treatment Plant, Ballari Municipal Authority & 5 m³/day will be met from the Bore well. The EAC deliberated on the water requirement and found it satisfactory.
- viii. PP has reported that there are court case related to the project. However, the same are not related to the environmental issues.
- ix. The EAC also deliberated on the submitted written submission of project proponent and found it satisfactory.

Recommendations of the Committee

50.18.16 After deliberations, the Committee **recommended** the project proposal **subject to uploading the written submission on portal** for prescribing following specific ToRs for undertaking detailed EIA and EMP study alongwith Public Hearing in addition to the generic ToRs enclosed at **Annexure-1** read with additional ToRs at **Annexure-2**:

- (i) Timmalapura Village is at a distance of 0.92 km (NW) from the project site along with other sensitive areas exists within the study area of the project site. Proponent shall prepare appropriate environmental safeguard measures to minimise the impact due to the project activities on these sensitive areas. PP needs to plan to strengthen green belt all around the plant area to reduce the dust pollution.

- (ii) Tungabhadra High Level Canal is at a distance of 0.58 km in North of the project site along with other water bodies within the study area of the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be prepared and submitted.
- (iii) Existing Water requirement is 60 m³/day. The water requirement for the proposed project is estimated as 665 m³/day, out of which 660 m³/day of water will be treated water from Ballari Sewage Treatment Plant, Ballari Municipal Authority & 5 m³/day will be met from the Bore well. PP shall obtain necessary permissions from the Competent Authority.
- (iv) The PP is required to include the provision for utilizing water for greenbelt development in the water balance diagram that will be submitted with the EIA/EMP Report.
- (v) PP shall submit stringent plan for improving the housekeeping on regular basis.
- (vi) The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the E.I.A., wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc.
- (vii) The Stack details and flow rate of exit gas through the stacks must be included in the EIA/EMP Report.
- (viii) The GLC modelling for CO emission from kilns and furnaces under worst-case scenario must be included in the EIA/EMP report.
- (ix) Project proponent shall prepare layout plan showing all internal roads minimum 6m width and 9m turning radius with proper looping for smooth traffic flow, 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. The PP shall prepare 3 different drawings. Drawing No 1 should include a layout with Road Networking, Traffic Chanalization, All Plant structures, Parking with a detailed area statement for each element, Indexing with proper color code and Naming at Bottom right corner. Drawing No 2 include a layout with road networking, Existing and proposed Green belt with calculations and indexing with proper color code along with nos of trees in existence and proposed trees. Drawing No 3 includes a layout with road networking, contour drawing and drainage disposal system and rain water harvesting system with calculations, Further the disposal of storm drain point with invert level. Drawing include indexing with color code for drainage pipe lines. The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the E.I.A., wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc.

Proposals from Parivesh 1.0 Portal

Consideration of Environmental Clearance

Agenda No. 50.19

50.19 Installation of 2 X 7 MTPA Greenfield Iron Ore Pellet Plant by M/s Essar Minmet Limited, located at Paradip, Jagatsinghpur District, Odisha - Re-Consideration of Environmental Clearance (Parivesh 1.0)

[Proposal No. IA/OR/IND/198977/2021, File No. J-11011/38/2021-IA.II(I)]

- 50.19.1 M/s. Essar Minmet Limited (EML) has made an online application vide proposal no. IA/OR/IND/198977/2021 dated 27.07.2022 along with copy of EIA/EMP report, Form – 2 seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical industries (ferrous & non-ferrous) under Category ‘A’ of the schedule of the EIA Notification, 2006) and appraised at Central Level.
- 50.19.2 The proposal was considered during the 13th meeting of the EAC for Industry-I sector held on 14-15th September, 2022 wherein, the EAC, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Environment Clearance subject to stipulation of certain specific conditions and general conditions.
- 50.19.3 The proposal was processed in the Ministry wherein it was noted that PP has reported that this is an interlinked project, Iron Ore Beneficiation plant of 14.3 MTPA at Tikarpada - Keonjhar district for which TOR was obtained on 12/04/2021. The EIA study completed in March-May 2021 and Draft EIA report submitted to OSPCB on 27th Sep -2021. The Public Hearing was announced for 10th Jan 2022. Due to COVID surge in Keonjhar during this period it was postponed as per State Govt. Then Panchayat Election in April 2022 and due to Code of Conduct the date of Public Hearing was not declared. Same is being pursued and PP expect the date of Public Hearing by end of October 2022. The final EIA-EMP shall be submitted to MoEFCC for consideration by November 2022. Being a smaller unit compared to Pellet Plant it can be completed in 24 months and 30 months required to construct Pellet plant. Hence both the units will be commissioned simultaneously along with completion of underground slurry pipeline of 250 km in 2 years’ duration.
- 50.19.4 Further, the matter was examined in the Ministry as per the Ministry’s OM dated 24/12/2010 for consideration of Integrated and Inter-linked projects. The said OM, inter-alia, mentioned that the proposals relating to the various sector have been considered by the respective EACs and their recommendations made, these proposals will be processed on individual files for obtaining simultaneous approval of the Competent Authority in the Ministry. It has been admitted by the

PP that instant project is an inter-linked project and EAC has also raised this issue that without beneficiation plant, how PP will implement this instant project.

- 50.19.5 In view of the above, the Ministry vide letter dated 09.11.2022, advised PP to expedite the process of EC application for the integrated Iron Ore Beneficiation plant of 14.3 MTPA at Tikarpada Keonjhar District for further action on the instant project in the Ministry.
- 50.19.6 Since then, there have been several communications from Project Proponent, however, the aforementioned issue has not been address.
- 50.19.7 The PP vide letter dated 17.10.2023, further submitted that they want to propose an alternate plan with external iron ore concentrate through pipe Conveyor from Paradip port, till Beneficiation plant and slurry pipeline become operational.
- 50.19.8 Based on the request of PP, the Ministry on 02.11.2023 informed PP that in order to consider this revised proposal, such changes may also be included be in EIA/EMP report and PP needs to revise the report. In this regard, the PP was submitted the revised/updated EIA/EMP report to include the alternative plan for further appraisal before the EAC for further deliberations/consideration.
- 50.19.9 The PP submitted the revised EIA/EMP report on 20.11.2023 and accordingly, the proposal was placed before the EAC during the 50th meeting held on 13th-15th December, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

- 50.19.10 The Committee noted the following:
1. The EAC discussed the modifications in the current proposal and believes that, for a clearer comprehension of the project's facets, it is essential to compare all significant aspects outlined in the initial EIA/EMP Report with the alterations made in the revised EIA/EMP Report. The current documents lack clarity at this moment. Given that the proposal was previously endorsed after thorough deliberations, it is essential to comprehend the changes made with careful scrutiny.
 2. The EAC discussed the transportation study provided by the project proponent and observed that the current Level of Service (LOS) is C. However, there is a need for greater clarity regarding the LOS in the post-proposed project scenario.
 3. Since PP has proposed this alternate plan with external iron ore concentrate through pipe Conveyor from Paradip port, till Beneficiation plant and slurry pipeline become operational, PP is required to submit a NOC from the Paradip Port.
 4. The EAC observed that the Project Proponent (PP) had proposed a greenbelt covering 16.19 hectares, approximately 40% of the total project area. However, upon reviewing the drone survey of the project site, the EAC noted a significantly inadequate greenbelt status.

The committee believes that the PP should have initiated greenbelt development during this timeframe. The EAC suggests that the PP shall commence greenbelt development at the beginning of the upcoming monsoons and submit an undertaking to complete the greenbelt within a one-year period.

5. The Committee deliberated on the baseline data and incremental GLC due to the proposed project and is of the opinion that PP shall re-evaluate the modelling for the probable changes during this time period. PP shall also make a comparison with the secondary data from reliable sources.
6. The EAC also discussed the socio-environmental changes and believes that the Project Proponent should quantify these changes. Subsequently, the PP needs to formulate a plan to address the identified issues.
7. The EAC noted that the Project is close the Estuary ecosystem, the PP shall submit plan to conserve and protect the Estuary ecosystem.
8. As reported total land is 40.49 ha which is under the possession of Paradip Port Trust Authority and PP had undertaken that they would take this land on long term lease basis for sixty (60) years. The PP shall submit the status of acquisition of the land with credible documents.
9. The EAC advised PP/Consultant to represent the case again with revised proposal presentation. In view of the same, the EAC opined that PP needs to update the EIA/EMP Report with all the desired details and shall submit the revised EIA/EMP report for consideration of the proposal.
10. The EAC advised PP/Consultant to gather all the facts and figures related to the instant proposal for clear understanding and further consideration of the Committee.
11. The PP/Consultant agreed to the suggestions of EAC and requested EAC to allow reappear after the revision of the application with the desired information.

Recommendations of the Committee:

- 50.19.11 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** to address the shortcomings enumerated at para 50.19.10 above. The proposal may be considered after submission of the requisite information.

Agenda No. 50.20

- 50.20 Forward Integration, Expansion and Product Diversification programme of existing mini Steel Plant by installation of Sponge Iron Kilns (1x200 TPD), Induction Furnaces (2x15 T + 1x7.5 T) & modernization / up gradation of existing furnaces i.e. 1x4 T, 2x3.5 T & 1x6 T to augment capacity to 3x7 T + 1x6 T with (1x10 T+1x15T) LRF and 6/11 m, 2 Strand**

Continuous Casting Machine, Hot rolling Mill (1,00,000 TPA) & Light Structural Mill (80,000 TPA), Sinter Plant (35 TPD), WHR Boiler (1x24 TPH), Submerge by M/s Salagram Power And Steel Private Limited, located at Palitpur Road, Village & P.O. Mirzapur, District: Purba Bardhaman, West Bengal - Consideration of TOR

[Proposal No. IA/WB/IND/273355/2022; File No. IA-J-11011/174/2022-IA-II(IND-I)]

50.20.1 M/s. Salagram Power and Steel Pvt. Ltd. has made an application online vide proposal no. IA/WB/IND/273355/2022 dated 14.07.2023 along with the application in prescribed format (CAF, Form – I Part A & B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (Ferrous & Nonferrous) and 1(d) Thermal Power Plants under Category ‘A’ of the schedule of the EIA Notification, 2006 and being appraised at the Central Level.

Details submitted by the project proponent

50.20.2 The project of M/s Salagram Power and Steel Pvt. Ltd. located at Palitpur Road, Village & P.O. Mirzapur, District: Purba Bardhaman, West Bengal state is for setting up of a forward integration, expansion and product diversification programmed of existing mini–Steel Plant by installation of Sponge Iron Kilns (1x200TPD), Induction Furnaces (2x15 T + 1x7.5 T) & modernization / up gradation of existing furnaces i.e. 1x4 T, 2x3.5 T & 1x6 T to augment capacity to 3x7 T+ 1x6 T with (1x10 T+1x15T) LRF and 6/11 m, 2Strand Continuous Casting Machine, Hot rolling Mill (1,00,000 TPA) & Light Structural Mill (80,000 TPA), Sinter Plant (1x70 TPD), WHR Boiler (1x22 TPH), Submerged Arc Furnaces (2x4.5 MVA) & Captive Power Plant (1x8 MW), 1x 80 TPD Slag crusher.

50.20.3 The proposal was initially considered during the 41st meeting of the EAC for Industry-I sector held on 2nd & 4th August, 2023 wherein after deliberation, the Committee deferred the proposal due to technical shortcomings. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee (EAC during 2nd & 4th August, 2023)

The Committee noted the following:

1. The EAC noted that the existing project was accorded environmental clearance from SEIAA vide letter No. EN/2197/T-II-I/044/2008 dated 19.08.2009 in the name of M/s. Shyam Sel Limited for proposed expansion project for installation of Induction Furnace (1x6 MT) and Arc Furnace (1x4.5 MT). The PP reported that later the name of the company was changed to M/s. Salagram Power and Steel Pvt. Ltd. However, PP has not obtained EC transfer in the name of M/s. Salagram Power and Steel Pvt. Ltd. The EAC deliberated and observed that PP/Consultant has not submitted any document furnishing the same throughout the process of application and consideration of proposal by EAC. The EAC is of the view that PP should have applied for transfer of EC in the name of M/s. Salagram Power and Steel Pvt. Ltd. and thereafter application for ToR shall have been made.

2. The PP reported that they have committed violation as in 2016, CCM installed was not modified in the EC issued by SEIAA, WB. Also Additional Plant and Machinery were installed without EC. The EAC noted that the plant facilities which are in violation are still in operation. Since the project facilities are installed under violation their operation shall be stopped till the regularisation as per Ministry's SOP dated 07.07.2021. The SPCB shall take necessary credible action against the Unit.
3. The EAC advised PP/Consultant to gather all the facts and figures related to the instant proposal for clear understanding and further consideration of the Committee.
4. The total land area of the unit is 11.99 Acres. Acquired land is 9.87 HA and rest 2.12 Acre is under process. Taking into consideration Ministry's O.M. vide F.No. 22-76/2014-IA-III dated 07.10.2014 which reads as "*While full acquisition of land may not be a prerequisite for the consideration of the case for EC, there should be some credible document to show the status of land acquisition w.r.t project site when the case is brought before the concerned EAC/SEAC for appraisal.....*," EAC is of the opinion that, credible document showing the status of land acquisition shall be required at the time of appraisal in pursuance to the said O.M.
5. Distributary No. 06 MC (0.81 km, S) and Gora Nala (0.93 km) are adjacent to the project site. Also there are other water bodies within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be prepared.
6. PP has reported that ESZ of Ramnabagan Wildlife Sanctuary is at a distance of 3.22 km in SSE direction from Project boundary. The EAC opined that PP shall submit certificate from the Competent Authority along with the authenticated map showing the distance of the Ramnabagan Wildlife Sanctuary and its ESZ from the project site boundary.
7. It is reported that total water requirement after expansion is 694 m³/day; out of which 514 m³/day of fresh water requirement is being/will be obtained from the Bore-wells and the remaining requirement of 180 m³ /day is being/will be met from the Recycled. PP shall explore the possibility to source their water requirement from alternate source to reduce their dependency on ground water.
8. The EAC also recommended that the Ministry shall request the SPCB to take credible action against the Unit as per provisions of the SOP dated 07.07.2021 and restrict the production capacity as per consented capacity.
9. The EAC warned the consultant [M/s. Enkay Enviro Services Pvt. Ltd.] for not guiding the project proponent properly with respect to submission of all the relevant information related to the project and timely stopping the operations of project facilities installed under violation. The EAC has further directed that Consultant shall improve the PFR report including all the relevant information.
10. The PP/Consultant agreed to the suggestions of EAC and requested EAC to allow reappear after the revision of the application with the desired information.

Recommendations of the Committee(EAC during 2nd & 4th August, 2023):

In view of the foregoing and after detailed deliberations, the committee recommended to defer the proposal to address the shortcomings enumerated at para above. The proposal may be considered after submission of the requisite information.

50.20.4 The proponent submitted the ADS reply vide letter dated 08/11/2023 uploaded on PARIVESH on 16/11/2023 Point- wise reply of ADS is given as below:

Sl. No.	ADS Point	Reply/Response of PP
1.	The EAC noted that the existing project was accorded environmental clearance from SEIAA vide letter No. EN/2197/T-II I/044/2008 dated 19.08.2009 in the name of M/s. Shyam Sel Limited for proposed expansion project for installation of Induction Furnace (1x6 MT) and Arc Furnace (1x4.5 MT). The PP reported that later the name of the company was changed to M/s. Salagram Power and Steel Pvt. Ltd. However, PP has not obtained EC transfer in the name of M/s. Salagram Power and Steel Pvt. Ltd. The EAC deliberated and observed that PP/Consultant has not submitted any document furnishing the same throughout the process of application and consideration of proposal by EAC. The EAC is of the view that PP should have applied for transfer of EC in the name of M/s. Salagram Power and Steel Pvt. Ltd. and thereafter application for ToR shall have been made.	As suggested by Hon'ble EAC we applied for Transfer of EC in the name of Salagram Power and Steel Pvt. Ltd on dtd. 08.08.2023 at SEIAA, West Bengal Acknowledgement Slip for EC transfer application is submitted. The same was considered concluded that the validity of issued EC on date 19.08.2009 is now invalid and has to be dealt afresh, copy of MOM is submitted.

Sl. No.	ADS Point	Reply/Response of PP												
2.	The PP reported that they have committed violation as in 2016, CCM installed was not modified in the EC issued by SEIAA, WB. Also, Additional Plant and Machinery were installed without EC. The EAC noted that the plant facilities which are in violation are still in operation. Since the project facilities are installed under violation their operation shall be stopped till the regularisation as per Ministry's SOP dated 07.07.2021. The SPCB shall take necessary credible action against the Unit.	As directed by MOEF&CC, we have submitted a letter to seize the operations of activities attracting violation with undertaking to WBPCB. Copy of the same is submitted.												
3.	The EAC advised PP/Consultant to gather all the facts and figures related to the instant proposal for clear understanding and further consideration of the Committee.	-												
4.	The total land area of the unit is 11.99 Ha. Acquired land is 9.87 Ha. and rest 2.12 Ha is under process. Taking into consideration Ministry's O.M. vide F. No. 22- 76/2014-IA-III dated 07.10.2014 which reads as <i>"While full acquisition of land may not be a prerequisite for the consideration of the case for EC, there should be some credible document to show the status of land acquisition w.r.t project site when the case is brought before the concerned EAC/SEAC for</i>	<p>In the month of August 2016, Shyam Sel and Power Limited demerged and Burdwan unit was transferred to a new company Name Shyam IT Park Developers Pvt. Ltd, and subsequently the name was changed to Salagram Power and Steel Pvt. Ltd.. In the case of demerger, Salagram Power and Steel Pvt. Ltd. received 22.53 acres land from Shyam Sel and Power Ltd.,. Out of 22.53 acres, 16.942 acres already mutated and converted in the name of Salagram Power and Steel Pvt. Ltd. Balance 5.23 acres pending for mutation and same land documents are submitted.</p> <p><u>Land Status of Salagram Power and Steel Pvt. Ltd.: -</u></p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Name of Ownership</th> <th>Plot No.</th> <th>Total Area (In Acres)</th> <th>Total Area (In Ha)</th> <th>Land Acquisition Status</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Salagram Power and</td> <td>111, 113, 114, 115,</td> <td>16.942</td> <td>6.86</td> <td>Acquired Mutated &</td> </tr> </tbody> </table>	Sl. No.	Name of Ownership	Plot No.	Total Area (In Acres)	Total Area (In Ha)	Land Acquisition Status	1.	Salagram Power and	111, 113, 114, 115,	16.942	6.86	Acquired Mutated &
Sl. No.	Name of Ownership	Plot No.	Total Area (In Acres)	Total Area (In Ha)	Land Acquisition Status									
1.	Salagram Power and	111, 113, 114, 115,	16.942	6.86	Acquired Mutated &									

Sl. No.	ADS Point	Reply/Response of PP					
	appraisal.....," EAC is of the opinion that, credible document showing the status of land acquisition shall be required at the time of appraisal in pursuance to the said O.M.		Steel Pvt. Ltd.	116, 117, 118, 119, 120, 121, 122, 136, 139, 141, 147, 148, 206, 207, 208, 209, 217, 220, 221, 224, 976, 139/6006, 139/6007, 141/6008, 202/6017, 220/6231			Converted
		2.	Salagram Power and Steel Pvt. Ltd.	110, 221/5018, 224, 136, 137, 138, 143, 144, 145, 146, 139/6006, 139/6007	5.23	2.12	Acquired, Mutation and Conversion under Process
		3.	Shri Suyash Agarwal	123, 124, 125, 126, 135, 142, 627, 628, 732, 734, 126/6002, 225/6019	5.338	2.16	Acquired Muted Converted
		4.	Shri Suyash Agarwal	112, 730, 734, 225/6019	2.1	0.85	Acquired, Muted, Conversion under Process
		Total			29.61	11.99	
5.	Distributary No. 06 MC (0.81 km, S) and Gora Nala (0.93 km) are adjacent to the project site. Also, there are other water	<p>The conservation measures adopted by plant for conservation of nallah and river are as follows:</p> <ul style="list-style-type: none"> ▪ Zero Liquid Discharge (ZLD) is being/ will be maintained. 					

Sl. No.	ADS Point	Reply/Response of PP
	bodies within the study area of the project site. A robust and full proof Drainage Conservation Scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be prepared.	<ul style="list-style-type: none"> ▪ No discharge from the project site is being done in to the Distributary No. 06 MC (0.81 km, S) and Gora Nala (0.93 km) and the same will be maintained in the future as well. ▪ Storm water network will be strengthened to collect the run off in a tank of size of capacity 264 cum is existing at site to arrest the silt and direct run off. <p>Detailed plan will be submitted in the Chapter-4 of the EIA/EMP.</p>
6.	PP has reported that ESZ of Ramnabagan Wildlife Sanctuary is at a distance of 3.22 km in SSE direction from Project boundary. The EAC opined that PP shall submit certificate from the Competent Authority along with the authenticated map showing the distance of the Ramnabagan Wildlife Sanctuary and its ESZ from the project site boundary.	Request letter for issue of DCF certificate along with the authenticated map showing the distance of the Ramnabagan Wildlife Sanctuary and its ESZ from the project site boundary submitted to Principle Chief Conservation of Forests (Wildlife) & Chief Wildlife Warden dtd. on 22.09.2023 and same is submitted.
7.	It is reported that total water requirement after expansion is 694 m ³ /day; out of which 514 m ³ /day of fresh water requirement is being/will be obtained from the Bore-wells and the remaining requirement of 180 m ³ /day is being/will be met from the Recycled. PP shall explore the possibility to source their water requirement from alternate source to reduce their dependency on ground water.	As suggested by MoEF&CC, Salagram Power and Steel Pvt. Ltd. has approached Burdwan Development Authority (BDA) for water supply to meet the requirement for our existing project. Copy of Prayer letter is submitted.
8.	The EAC also recommended that the Ministry shall request the SPCB to take credible action against the Unit as per provisions of the SOP dated 07.07.2021 and restrict the	The directions shall be complied.

Sl. No.	ADS Point	Reply/Response of PP
	production capacity as per consented capacity.	
9.	The EAC warned the consultant [M/s. Enkay Enviro Services Pvt. Ltd.] for not guiding the project proponent properly with respect to submission of all the relevant information related to the project and timely stopping the operations of project facilities installed under violation. The EAC has further directed that Consultant shall improve the PFR report including all the relevant information.	Revised PFR has been prepared and same is submitted.
10.	The PP/Consultant agreed to the suggestions of EAC and requested EAC to allow reappear after the revision of the application with the desired information.	Agreed and noted. The Application for TOR has been revised and resubmitted accordingly.

50.20.5 Based on the above submission, the proposal was re-considered during the 50th meeting of the EAC for Industry-I sector held on 13th-15th December, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

50.20.6 The Committee noted the following:

1. The Member Secretary apprised the Committee that initially the PP/Consultant informed vide email dated 06.12.2023, their consent to attend the meeting and also sent the desired documents for consideration of proposal. Further, the PP vide email dated 14.12.2023 sent the letter dated 14.12.2023 informing that they will not be able to attend the meeting due to non-availability of their technical person. Taking into consideration the communication from the PP/Consultant, EAC is of the view that this is very unprofessional on the part of Consultant as they have initially given their consent and based on their consent and listing of the case in the agenda, Committee members made efforts to go through the documents sent by the PP/Consultant. PP/Consultant have simply wasted the time of the EAC. The EAC has also warned the Consultant. In view of the same, the Committee recommended to consider the proposal once they are ready to attend the meeting.

2. It was also apprised to the EAC members that Ministry is in receipt of a representation against the project due to various issues elaborated in the said letter. The EAC is of the opinion that since the issues raised are pertaining to proposed project, the complaint shall be shared with the project proponent for their pointwise reply. The EAC advised the Ministry to forward the representation to project proponent for their justification/clarification. In this context, representation has been shared with the project proponent for their pointwise response.

Recommendations of the Committee:

- 50.20.7 In view of the foregoing, the committee recommended to **defer the proposal** and advised Ministry to consider the proposal once Ministry receives a written communication from PP/Consultant that they are ready to attend the meeting.

Additional Agenda with approval of the Chairman

Agenda No. 50.21

- 50.21 Expansion of Manufacturing of Ferro Alloys from 48,000 TPA to 64,000 TPA by M/s Hira Power and Steels Limited, located at Khasra No. 156, 500, 508, 509, 510, 511/1, 511/2, 512/1, 512/2, 513/1 - 513/5 and others Urla Industrial Area, Raipur, Chhattisgarh– Re-Consideration of Environmental Clearance.**

**[Proposal No IA/CG/IND1/425728/2023; File No.: IA-J-11011/836/2008-IA-II(IND-I)]
[Consultant: Pollution and Ecology Control Services; valid upto 16.10.2025]**

- 50.21.1 M/s. Hira Power and Steel Limited has made an online application vide proposal no. IA/CG/IND1/425728/2023 dated 19.05.2023 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a), Metallurgical industries (ferrous & non-ferrous) and 1 (d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and attracts general condition due to Urla industrial area being at 7 Km (NE) from Siltara Industrial area and 6.9 Km (SSE) from Raipur which are CPA and being appraised at Central Level.
- 50.21.2 Name of the EIA consultant: M/s. Pollution and Ecology Control Services [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2225/RA 0291; valid upto 16.10.2025, as on October 13, 2023].
- 50.21.3 The project was considered in 46th EAC meeting held during 9th -11th October, 2023 and 48th EAC meeting held on 8th – 9th November, 2023.

- 50.21.4 In the 48th EAC meeting the committee recommended the instant proposal for grant of Environment Clearance subject to uploading the information on portal along with CCR of EC and CTE/CTO under the provisions of EIA Notification.
- 50.21.5 PP uploaded the CCR dated 07/12/2023 w.r.t the unit running based on CTE/CTO on 7/12/2023 and competent authority decided to place the report before EAC for consideration.
- 50.21.6 PP submitted the details of non-compliance of CCR form Chhattisgarh Environment Conservation Board dated 07/12/2023 as given below.

SL. No.	Non-Compliance details	Observations of SPCB as per CCR dated 06/12/2023	Submission by PP
1	Condition No. 11 of Water Consent Condition No. 10 of Air Consent that.- Industry ensure transportation shall of material like coal, iron ore etc. in mechanically covered vehicles on or before 10.09.2018	“Not complied" mentioned by CECB with following comments. - Industry Agrees. Industry has informed us that due to non-availability of Mechanically Covered Vehicles in markets for transportation of the Raw Materials and fuels they are transporting raw materials and fuels in Tarpaulin Covered Trucks. The above is being transported by the industry by covering the vehicle with the Tarpaulin	As per the Chhattisgarh Environment Conservation Board office order 3600/H.O./TECH/CECB/2021 Nawa order Raipur dated 24.08.2021 Steel Plants have been relieved from use of mechanically covered trucks for the purpose of transportation till 12.07.2023 due to unavailability of these type of trucks in the nearby markets. Hence we were carrying out transportation of raw materials by covering our vehicles through Tarpaulin. Surprisingly Chhattisgarh Environment Conservation Board vide letter No. 4141 /H.O. /TECH/CECB /2023,Nawa Raipur dtd 28.08.2023 has asked PP to submit difficulties arising in transporting Raw Material/products by Mechanically Covered vehicles. PP had submitted the difficulties through email dated 03.10.2023 to Regional office.

Deliberations by the Committee

50.21.7 The Committee also deliberated the CCR report of and found it satisfactory.

Recommendations of the Committee:

50.21.8 In view of the foregoing and after detailed deliberations, the committee reiterated its earlier recommendations for grant of EC for the instant proposal under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions [As deliberated by the EAC in its 48th EAC meeting held in 8-9 November 2023].

The meeting ended with thanks to the Chair.

Standard ToR in line with Appendix III of the EIA, 2006.
applicable to Proposals Under Industry-1 Sector

Preliminary requirements:

- i. EIA/EMP report cover page shall consist 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.
- ii. 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.

Structure of EIA/EMP report**Executive Summary**

- i. Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.
- ii. Point wise compliance to the ToR issued by MoEF&CC.
- iii. Executive Summary
 - I. Introduction
 - i. Name of the project along with applicable schedule and category as per EIA, 2006.
 - ii. Location and accessibility
 - II. Project description
 - i. Resource requirements (Land; water; fuel; manpower)
 - ii. Operational activity
 - iii. Key pollution concerns
 - III. Baseline Environment Studies
 - i. Ambient air quality
 - ii. Ambient Noise quality
 - iii. Traffic study
 - iv. Surface water quality
 - v. Ground water quality
 - vi. Soil quality
 - vii. Biological Environment
 - viii. Land use
 - ix. Socio-economic environment

- IV. Anticipated impacts
 - i. Impact on ambient air quality
 - ii. Impact on ambient noise quality
 - iii. Impact on road and traffic
 - iv. Impact on surface water resource and quality
 - v. Impact on ground water resource and quality
 - vi. Impact on terrestrial and aquatic habitat
 - vii. Impact on socio-economic environment
- V. Alternative analysis
- VI. Environmental Monitoring program
 - i. Ambient air, noise, water and soil quality
 - ii. Emission and discharge from the plant
 - iii. Green belt
 - iv. Social parameters
- VII. Additional studies
 - i. Risk assessment
 - ii. Public consultation
 - iii. Action plan to address the issues raised during public consultation as per MoEF&CC O.M. dated 30/09/2020
- VIII. Project benefits
- IX. Environment management plan
 - i. Air quality management plan
 - ii. Noise quality management plan
 - iii. Solid and hazardous waste management plan
 - iv. Effluent management plan
 - v. Storm water management plan
 - vi. Occupational health and safety management plan
 - vii. Green belt development plan
 - viii. Socio-economic management plan
 - ix. Project cost and EMP implementation budget.

EIA/EMP Report

1. Introduction

- i. Background about the project
- ii. Need of the project
- iii. Purpose of the EIA study
- iv. Scope of the EIA study

2. Project description

A. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State.
- ii. Site accessibility

- iii. 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).
- iv. 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.
- v. Environment settings of the site and its surrounding along with map.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. 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.
- x. Type of land, land use of the project site needs to be submitted.
- xi. 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.
- xii. 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.
- xiii. 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.
- xiv. A detailed report covering all aspects of Fire Safety Management and Fire Emergency Plan shall be submitted.

- xv. Details of drone survey for the site, needs to be included in report and presented before the EAC during appraisal of the project.

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

- i. Status of Forest Clearance for the use of forest land shall be submitted.
- ii. 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.
- iii. 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.
- iv. 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.

C. Salient features of the project

- i. Products with capacities in **Tons per Annum** for the proposed project.
- ii. If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
- iii. Site preparatory activities.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other than raw materials, other chemicals and materials required with quantities and storage capacities.
- vi. Manufacturing process details along with process flow diagram of proposed units.
- vii. Consolidated materials and energy balance for the project.
- viii. Total requirement of surface/ ground water and power with their respective sources, status of approval.
- ix. Water balance diagram
- x. Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
- xi. Man-power requirement.
- xii. Cost of project and scheduled time of completion.
- xiii. In case of expansion projects, project proponent shall submit structural stability certificate showing whether existing structure withstand for proposed expansion activity.
- xiv. 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. 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.

- c. 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.
- d. 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.

3. Description of the Environment

- i. Study period
- ii. Approach and methodology for data collection as furnished below.

Attributes	Sampling		Remarks
	Network	Frequency	
A. Air Environment			
Micro-Meteorological <ul style="list-style-type: none"> • Wind speed (Hourly) • Wind direction • Dry bulb temperature • Wet bulb temperature • Relative humidity • Rainfall • Solar radiation • Cloud cover • Environmental Lapse Rate 	Minimum 1 site in the project impact area	1 hourly continuous	<ul style="list-style-type: none"> • IS 5182 Part 1-20 • Site specific primary data is essential • Secondary data from IMD, New Delhi • CPCB guidelines to be considered.
Pollutants <ul style="list-style-type: none"> • PM_{2.5} • PM₁₀ 	At least 8-12 locations	As per	<ul style="list-style-type: none"> • Sampling as per CPCB guidelines

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

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

Attributes	Sampling		Remarks
	Network	Frequency	
For Ground Water	<ul style="list-style-type: none"> 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. 		
D. Traffic Study			
<ul style="list-style-type: none"> Type of vehicles Frequency of vehicles for transportation of materials Additional traffic due to proposed project Parking arrangement 	-		
E. Land Environment			
Soil <ul style="list-style-type: none"> Particle size distribution Texture pH Electrical conductivity Cation exchange capacity Alkali metals Sodium Absorption Ratio (SAR) Permeability Water holding capacity Porosity 	Soil samples be collected as per BIS specifications		
Land use/Landscape <ul style="list-style-type: none"> Location code Total project area Topography Drainage (natural) Cultivated, forest, plantations, water bodies, roads and settlements 	-		
E. Biological Environment			
Aquatic <ul style="list-style-type: none"> Primary productivity Aquatic weeds 	<ul style="list-style-type: none"> Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered 		

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

iii. 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

4. Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)

i. Identification of potential impacts in the form of a **matrix** for the construction and operation phase for all the environment components

Activity	Environment	Ecological	Socio-economic
Construction phase			
Operation phase			

ii. 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.

iii. Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

- a. Construction phase
- b. Operation phase

iv. Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

- a. Construction phase
- b. Operation phase

v. Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

- a. Construction phase

- b. Operation phase
- vi. Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- vii. Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- viii. Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- ix. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- x. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- xi. Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase

5. Analysis of Alternatives (Technology & Site)

- i. No project scenario
- ii. Site alternative
- iii. Technical and social concerns
- iv. Conclusion

6. Environmental Monitoring Program

- i. Details of the Environment Management Cell
- ii. Performance monitoring schedule for all pollution control devices shall be furnished.
- iii. Corporate Environment Policy
 - a. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
 - b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
 - c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given.

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

iv. Action plan for **post-project environment monitoring matrix**:

Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility
Construction phase					
Operation phase					

7. Additional Studies

- i. 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.
- ii. 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.
- iii. Implementation status/measures adopted for avoiding the generation of single used plastic waste.
- iv. 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.
- v. Public consultation details (Entire proceedings as separate annexure along with authenticated English Translation of Public Consultation proceedings).
- vi. 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.
- vii. 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

S No	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)
	Name of the Activity	Physical Targets	1 st	2 nd	3 rd	

viii. Risk assessment

- Methodology
- Hazard identification
- Frequency analysis
- Consequence analysis
- Risk assessment outcome

ix. Emergency response and preparedness plan

8. Project Benefits

- i. Environment benefits
- ii. Social infrastructure
- iii. Employment and business opportunity
- iv. Other tangible benefits

9. Environment Cost Benefit Analysis

- i. Net present value
- ii. Internal rate of return
- iii. Benefit cost ratio
- iv. Cost effectiveness analysis

10. Environment Management Plan (Construction and Operation phase)

- i. Air quality management plan
- ii. Noise quality management plan
- iii. Action plan for hazardous waste management
- iv. Action plan for solid waste management
- v. Action plan for e-waste management.
- vi. Action plan for plastic waste management.
- vii. Action plan for construction and demolition waste management.
- viii. Effluent management plan
- ix. Storm water management plan
- x. Rain water harvesting plan
- xi. Plan for maximum usage of waste water/treated water in the Unit
- xii. Occupational health and safety management plan
- xiii. 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 %.
- xiv. Socio-economic management plan
 - xv. Wildlife conservation plan (In case of presence of schedule I species)
 - xvi. Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

11. Conclusion of the EIA study

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

Standard ToRs FOR CEMENT INDUSTRY [3(b)]

1. Limestone and coal linkage documents along with the status of environment clearance of limestone and coal mines.
2. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
3. Present land use shall be prepared 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.
4. If the raw materials used have trace elements, an environment management plan shall also be included.
5. Plan for the implementation of the recommendations made for the cement plants in the Corporate Responsibility for Environmental Protection (CREP) guidelines shall be prepared.
6. Energy consumption per ton of clinker and cement grinding
7. Provision of waste heat recovery boiler
8. Arrangement for co-processing of hazardous waste in cement plant.
9. Provision of Alternate fuels.
10. Details of Implementation of Fly Ash Management Rules
11. Emission/Effluent norms as per GSR 496 (E) dated 9/5/2016 [EPA Rules 1986].
12. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
13. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
14. PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.
15. Action plan for 100 % solid waste utilization shall be submitted.
16. PM (PM₁₀ and P_{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM₁₀ to be carried over.

Standard ToRs FOR INTEGRATED STEEL PLANT [3(a)]

1. Iron ore/coal linkage documents along with the status of environment 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. PM (PM₁₀ and PM_{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM₁₀ to be carried over.
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.
11. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
12. Trace metals in waste material specially in slag.
13. Trace metals in water
14. Details of proposed layout clearly demarcating various units within the plant.
15. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).
16. Details on design and manufacturing process for all the units.
17. 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.
18. Details on requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
19. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
20. Details on toxic content (TCLP), composition and end use of slag.
21. Fourth Hole fume extraction system shall be provided for submerged Arc Furnace (SAF). Waste heat recovery (WHR) system shall be installed to recover the sensible heat from flue gases of electric arc furnace (EAF).
22. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019 [EPA Rules 1986].
23. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
24. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
25. Action plan for 100 % solid waste utilization shall be submitted.
26. PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.

Standard ToRs FOR METALLURGICAL INDUSTRY (Ferrous and Non-ferrous)[3(a)]

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.
2. Plan for the implementation of the recommendations made for the proposed Unit in the Corporate Responsibility for Environmental Protection (CREP) guidelines.
3. Plan for solid wastes utilization.

4. Plan for utilization of energy in off gases (coke oven, blast furnace)
5. System of coke quenching adopted with full justification.
6. 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.
7. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
8. Details on toxic content using Toxicity Characteristic Leaching Procedure (TCLP), composition and end use of slag.
9. 100 % dolo char generated in the plant shall be used to generate power.
10. 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.
11. No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be provided.
12. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019 [EPA Rules 1986].
13. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
14. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be submitted.
15. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
16. Action plan for 100 % solid waste utilization shall be submitted.
17. PM (PM₁₀ and P_{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM₁₀ to be carried over.

Standard ToRs FOR PULP AND PAPER INDUSTRY [5(i)]

1. A note on pulp washing system capable of handling wood pulp shall be included.
2. Manufacturing process details for the existing and proposed plant shall be included. Chapter on Pulping & Bleaching shall include: no black liquor spillage in the area of pulp mill; no use of elemental chlorine for bleaching in mill; installation of hypo preparation plant; no use of potcher washing and use of counter current or horizontal belt washers. Chapter on Chemical Recovery shall include: no spillage of foam in chemical recovery plant, no discharge of foul condensate generated from MEE directly to ETP; control of suspended particulate matter emissions from the stack of fluidized bed recovery boiler and ESP in lime kiln
3. Studies shall be conducted and a chapter shall be included to show that Soda pulping process can be employed for Eucalyptus/Casuarina to produce low kappa (bleachable) grade of pulp.
4. Commitment that only elemental Chlorine-free technology will be used for the manufacture of paper and existing plant without chemical recovery plant will be closed within 2 years of issue of environment clearance.

5. A commitment that no extra chlorine base bleaching chemicals (more than being used now) will be employed and AOx will remain within limits as per CREP for used based mills. Plan for reduction of water consumption.
6. Undertaking to comply with the norms stipulated in the S.O. 3187 (E) dated 7/10/2016 for the projects located in Ganga basin.
7. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
8. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
9. Action plan for 100 % waste utilization shall be submitted.

Standard ToRs FOR LEATHER/SKIN/HIDE PROCESSING INDUSTRY [4(f)]

1. Justification for engaging a particular type of process (raw hide/skin into semi finishing or finished leather, semi-finished leather to finished leather, dry finishing operations, chrome/vegetable tanning, etc.).
2. Details regarding complete leather/ skin/ hide processing including the usage of sulphides, nitrogen compounds, chromium or other tanning agents, post-tanning chemicals, biocides, etc., along with the material balance shall be provided.
3. In case of chrome tanning, details of the chrome recovery plant, management of shavings/solid waste including safe disposal.
4. Details on reuse of soak liquor / saline stream from membrane system, if applicable, to the extent possible in pickling activity after required treatment. Also, mention the salt recovery measures.
5. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
6. Action plan for 100 % waste utilization shall be submitted.

Standard ToRs FOR COKE OVEN PLANT [4(b)]

1. Justification for selecting recovery/non-recovery (beehive) type batteries with the proposed unit size.
2. Details of proposed layout clearly demarcating various facilities such as coal storages, coke making, by-product recovery area, etc within the plant.
3. Details of coke oven plant (recovery/non-recovery type) including coal handling, coke oven battery operations, coke handling and preparation.
4. Scheme for coal changing, charging emission centre, Coke quenching technology, pushing emission control.
5. Scheme for coke oven effluent treatment plant details including scheme for meeting cyanide standard.

6. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019. Provision of CDQ in case of coke oven plant of 0.8 MTPA and above.
7. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
8. Action plan for 100 % solid waste utilization shall be submitted.
9. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Standard ToRs FOR ASBESTOS MILLING AND ASBESTOS BASED PRODUCTS[4(c)]

1. Type of fibres used (Asbestos and others) and preference of selection from techno-environment angle should be furnished
2. As asbestos is used in several products and as the level of precautions differ from milling to usage in cement products, friction products gasketing, textiles and also differ with the process used, it is necessary to give process description and reasons for the choice for selection of process
3. Technology adopted, flow chart, process description and layout marking areas of potential environment impacts
4. National standards and codes of practice in the use of asbestos particular to the industry should be furnished
5. In case of newly introduced technology, it should include the consequences of any failure of equipment/ technology and the product on environment status.
6. In case of expansion project asbestos fibre to be measured at stack emission and work zone area, besides base line air quality.
7. In case of green field project asbestos fibre to be measured in the ambient air.
8. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
9. Action plan for 100 % solid waste utilization shall be submitted.
10. PM (PM₁₀ and P_{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations in case of expansion projects (trace elements /asbestos fibre) of PM₁₀ to be carried over.
11. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Standard ToRs FOR IRON ORE BENEFICIATION PLANT [2 (b)]

1. Details regarding pollution control measures to be adopted in the mineral handling area, loading and unloading areas including all transfer points shall be submitted.
2. The Project proponent shall submit action plan for conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.

3. Treatment details regarding effluent generated from the ore beneficiation plant and the mode of transportation of tailing slurry shall be submitted.
4. Separate chapter on slime management shall be submitted.
5. Action plan for regular monitoring of ground water level and quality in and around the project area of beneficiation plant and tailing/slime pond shall be submitted by establishing a network of existing wells and constructing new piezometers.
6. Details regarding lining of the tailing/slime pond to be provided shall be submitted in order to ensure that there is no leaching from the tailing/slime pond.
7. Details regarding establishment of garland drain around the tailing/slime pond and the quantity of decanted water to be re-circulated from the tailing/slime pond shall be submitted along with complete water balance.
8. Technology to be adopted for maximum recovery of ore in order to reduce slurry discharge and to increase the life of the tailing/slime pond shall be submitted.
9. Action plan for 100 % solid waste utilization shall be submitted.
10. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Executive Summary

Executive summary of the report in about 8/10 pages incorporating the following:

- i. Project name and location (Village, Dist, 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. Materials balance shall be presented.
- 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 its acquisition, nearby (in 2/3 km.) water body, population, with in 10km other industries, forest, eco/sensitive zones, accessibility, (note – in case of industrial estate this information may not be necessary)
- viii. Baseline environmental data – air quality, surface and ground water quality, soil characteristic, flora and fauna, socio/economic condition of the nearby population
- 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 plan with proposed expenditure.
- xiv. Occupational Health Measures
- xv. Post project monitoring plan

List of the Expert Appraisal Committee (Industry-1) members participated during VC meeting

S. No.	Name	Position	13.12.2023	14.12.2023	15.12.2023
1.	Shri Rajive Kumar	Chairman	<i>Present</i>	<i>Present</i>	<i>Present</i>
2.	Dr. Dipankar Shome	Vice Chairman	<i>Present</i>	<i>Present</i>	<i>Present</i>
3.	Dr. S. Ranganathan	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
4.	Dr. Ranjit Prasad	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
5.	Dr. S. K. Singh	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
6.	Dr. Tejaswini Ananthkumar	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
7.	Dr. Hemant Sahasrabuddhe	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
8.	Dr. Jai Krishna Pandey	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
9.	Dr. E V R Raju	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
10.	Dr. S K Chaturvedi, (Representatives of NCCBM)	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
11.	Shri Nazimuddin, Scientist 'F' (Representative of CPCB)	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
12.	Dr. S. Raghavan, Scientist 'E' (Representative of National Institute of Occupational Health (NIOH))	Member	<i>Absent</i>	<i>Absent</i>	<i>Absent</i>
13.	Dr. Sanjay Bist, Scientist 'E' (Representative of Indian Meteorological Department)	Member	<i>Present</i>	<i>Present</i>	<i>Present</i>
14.	Dr. R.B. Lal, Scientist F, MoEFCC	Member Secretary	<i>Present</i>	<i>Present</i>	<i>Present</i>
MoEFCC					
15.	Dr R P Rastogi	Scientist C	<i>Present</i>	<i>Present</i>	<i>Present</i>
16.	Dr Sandeepan BS	Scientist B	<i>Present</i>	<i>Present</i>	<i>Present</i>

Approval of EAC Chairman**Email****Dr R. B. Lal**

Re: Compiled Draft minutes of the 50th EAC Meeting held on 13-15 December, 2023 for approval of the Chairman. EAC-Regarding.

From : rajivekumar1983@gmail.com

Fri, Dec 22, 2023 03:54

Subject : Re: Compiled Draft minutes of the 50th EAC Meeting held on 13-15 December, 2023 for approval of the Chairman. EAC-Regarding.

PM

To : Dr R. B. Lal <rb.lal@nic.in>**Cc :** chairman eac ind 1 <chairman.eac.ind.1@gmail.com>, ranganathan metals <ranganathan.metals@gmail.com>, ranjitnitj@gmail.com, rajuevr60@gmail.com, sksinghdce@gmail.com, dshome61@gmail.com, tejaswini acf <tejaswini.acf@gmail.com>, sshemant 801 <sshemant_801@rediffmail.com>, NCCBM DIRECTOR GENERAL <dg@ncbindia.com>, Nazimuddin <nazim.cpcb@nic.in>, Raghavan S <raghuharihar@gov.in>, raghuharihar@yahoo.co.in, Sanjay Bist <sanjay.bist@imd.gov.in>, drjkpandey eac industry1 <drjkpandey.eac.industry1@gmail.com>, sandeepan <sandeepan.bs@gov.in>, RAJESH PRASAD RASTOGI <rp.rastogi@gov.in>

Dear Dr Lal,
The minutes are approved.
Kindly do the needful.
Best wishes
Rajive Kumar
Chairman EAC-Industry-1

