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

*****

Dated: 25.04.2023

Date of Zero Draft MoM sent to EAC: 24.04.2023
Approval by Chairman: 25.04.2023
Uploading on PARIVESH:25.04.2023

MINUTES OF THE 26TH EXPERT APPRAISAL COMMITTEE (INDUSTRY-1 SECTOR) MEETING HELD ON 12TH, 13TH AND 17TH APRIL, 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: APRIL 12, 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.

(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. It was apprised that the earlier 26th Meeting of the EAC was scheduled to be held on 12-14 April, 2023. Further due to the Holiday declared by the Central Government on April 14, 2023, the agenda for the projects of 14th April were deliberated by the EAC on 17 April 2023 and the same was informed to the Project Proponents accordingly.

(iii) Confirmation of the Minutes of the 25th Meeting of the EAC (Industry-1 Sector) held during 21st – 23rd March, 2023 at MoEF&CC through VC.

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 **25th Meeting of the EAC (Industry-1 Sector) held during 21st – 23rd March, 2023** conducted through Video Conferencing, and noted that there is some modifications/factual correction, in the minutes of the 25th EAC meeting for the project/activities which are incorporated in the minutes in Agenda No. 26.16 & 26.17.

Details of the proposals considered during the 26th meeting **conducted** through **Video Conferencing**, deliberations made and the recommendations of the Committee are explained in the respective agenda items as under:

Day 1: April 12, 2023 [Wednesday]

Consideration of Environmental Clearance Proposals

Agenda No. 26.1

26.1 Proposed expansion of Production Capacity of Sponge Iron From (2x100 TPD DRI) - 60,000 TPA to Sponge Iron (6 X 100 TPD DRI) - 200,000 TPA along with new set up of MS Billet 300,000 TPA And/Or Rerolled Steel Products Through Hot Charging 150,000 TPA and through Rehearing Furnace 150,000 TPA; MS Black Pipe Mill 140,000 TPA, Galvanizing Plant 100,000 TPA, Captive Power Plant 20 MW (12 MW through WHRB and 8 MW through AFBC) and Fly Ash Brick 69,300 TPA by M/s. Kalindi Ispat Pvt. Ltd., located at Khasra No. 34/9, 34/10 & 34/11 (Part), Village - Belpan, Tehsil - Masturi, District- Bilaspur, State – Chhattisgarh - Consideration of EC Proposal.

[Proposal No. IA/CG/IND1/409701/2022; File No. IA-J-11011/126/2021-IA-II(IND-I)]
[Consultant: ANACON LABORATORIES PVT. LTD.; Validity up to 28.06.2023]

26.1.1 M/s. Kalindi Ispat Pvt. Ltd. has made an online application vide proposal no. IA/CG/IND1/409701/2022 dated 18.03.2023 along with copy of EIA/EMP report, in prescribed format (CAF, Form – I Part A, B &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 appraised at Central Level.

26.1.2 Name of the EIA consultant: M/s. Anacon Laboratories Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/23/2719; Valid up to 28.06.2023, as on April 20, 2023].

Details submitted by Project proponent

26.1.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
27th May 2021	38th Meeting of EAC (Industry-I) on 15th – 16th June 2021	Terms of Reference	01.07.2021	30.06.2025

26.1.4 The project of M/s. Kalindi Ispat Pvt. Ltd. located at Village - Belpan, Tehsil - Masturi, District-Bilaspur, Chhattisgarh is for expansion of production capacity of Sponge Iron from (2X100 TPD DRI) - 60,000 TPA existing to Sponge Iron (6 X 100 TPD DRI) - 200,000 TPA along with new set up of MS billet 300,000 TPA and/or Rerolled Steel products through hot charging 150,000 TPA and through Rehearing Furnace 150,000 TPA; MS Black Pipe Mill 140,000 TPA, Galvanizing Plant 100,000 TPA, Captive Power Plant 20 MW (12 MW through WHRB and 8 MW through AFBC) and Fly Ash Brick 69,300 TPA.

26.1.5 Environmental Site Settings:

<table>
<tr><th>Sl.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>i.</td><td>Total land</td><td>25.619 Ha. (Existing Private free hold land)</td><td>The entire land is now diverted for industrial purposes and thus land diversion order available for 25.619 Ha.
The company does not propose to take additional land.
The proposed expansion will be carried out within existing land area</td></tr>
<tr><td>ii.</td><td>Land acquisition details as per MoEF&CC O.M. dated 7/10/2014</td><td>The proposed expansion will be carried out within existing land, no acquisition of extra land will be required. Thus, obligation of this OM dated 7/10/2014 stands satisfied.</td><td>The total proposed expansion project area is 25.619 Ha. The company owns (under possession) and controls the entire land area of 25.619 Ha. The entire land is now diverted for industrial purposes and thus land diversion order available for 25.619 Ha</td></tr>
<tr><td>iii.</td><td>Existence of habitation & involvement of R&R, if any.</td><td><u>Project Site:</u> No any
<u>Study Area</u>
<table><tr><th>Habitation</th><th>Dis.</th><th>Dir.</th></tr><tr><td>Belpan (Village)</td><td>0.6 km</td><td>ESE</td></tr></table></td><td>R&R not applicable.</td></tr>
<tr><td>iv.</td><td>Latitude and Longitude of the project site</td><td><table><tr><th>Sl.</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>21°47'21.20"N</td><td>82°13'57.62"E</td></tr><tr><td>2</td><td>21°47'10.88"N</td><td>82°14'26.08"E</td></tr><tr><td>3</td><td>21°47'27.84"N</td><td>82°14'3.36"E</td></tr></table></td><td></td></tr>
</table>

Sl.	Particulars	Details			Remarks
		4	21°47'22.12"N	82°14'20.76"E	
		5	21°47'21.19"N	82°14'8.18"E	
v.	Elevation of the project site	Project site located at 250 - 257m (above MSL). The topography of the land is more or less flat without undulations.			
vi.	Involvement of Forest land if any.	Mohtara RF – 9.7 km – SSW			
vii.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	**Study Area** Seonath River – 4.8 km – W Khorsi Nala – 9.2 km - S Jamuniya Nala – 4.8 km - WSW Arna or Arpa River – 6.5 km - NW Kurung Left Bank Canal – 0.2 km - N Jalso Distributary – 7.1 km – NE			
viii.	Existence of ESZ/ESA / national park/wildlife sanctuary/ biosphere reserve/tiger reserve/ elephant reserve etc. if any within the study area	Nil			

26.1.6 The existing plant has obtained Consent to Establish (CTE) vide letter no. 2438/TS/CECB/2005 Raipur dated 03.06.2005. Consent to Operate for the existing plant was accorded by Chhattisgarh Environment Conservation Board (CECB) vide letter dated 18.08.2006 for first kiln and for II kiln on 19.07.2007 and it has been most recently renewed by letter no . 3286/TS/CECB/2022 on dated 04/08/2022. The validity of CTO is up to 31.08.2024.

26.1.7 Implementation status of the existing CTE:

Sl.	Facilities	Units	Implementation Status in TPA	Productionas per CTO (Permitted capacity) in TPA
1.	Sponge Iron	TPA	60,000	60,000

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

Sl.	Name	Existing Units (in TPA)		Proposed Additional Units (in TPA)		Total (Existing + Proposed) (in TPA)	
		Configuration	Production	Configuration	Production	Configuration	Production
1	Sponge Iron	DRI Kilns, (2 x 100 TPD)	60,000	DRI Kilns, (4x100 TPD)	140,000	DRI Kilns, (6x100 TPD)	200,000
2	Mild Steel Billet	-	-	Induction Furnace, 15 MT X 6 Nos. along with LRF and CCM	300,000	Induction Furnace, 15 MT X 6 Nos. along with LRF and CCM	300,000

Sl.	Name	Existing Units (in TPA)		Proposed Additional Units (in TPA)		Total (Existing + Proposed) (in TPA)	
		Configuration	Production	Configuration	Production	Configuration	Production
3	Re Rolled Steel Products like; Structural Steel	-	-	Rerolling Mill of 455 TPD BRF and 455 TPD hot charging	300,000 (through Hot charging 150,000 and through BRF 150,000)	Rerolling Mill of 455 TPD BRF and 455 TPD hot charging	300,000 (through Hot charging 150,000 and through BRF 150,000
4	MS Black Pipe or pipes	-	-	ERW pipe mill will be about 425 TPD	140,000	ERW pipe mill will be about 425 TPD	140,000
5	Galvanized Steel products	-	-	Galvanizing unit will be about 304 TPD	100,000	Galvanizing unit will be about 304 TPD	100,000
6	WHRB Power Plant	-	-	WHRB from Sponge Iron	12 MW	WHRB from Sponge Iron	12 MW
7	AFBC Power plant	-	-	AFBC boiler	8 MW	AFBC boiler power generation from Char/ Dolochar & Coal	8 MW
8	Fly Ash brick	-	-	Fly Ash brick manufacturing facility	69300	Fly Ash brick manufacturing facility	69300

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

Sl.	Raw Material	Quantity (TPA)	Source	Distance from site (Kms)	Mode of transportation
FOR SPONGE IRON PLANT					
1.	Iron Ore	320000.00	Odisha Iron Ore Mine and NMDC	600	By Rail to the nearest Nipania railway siding and then by Road through covered vehicles
2.	Coal	260000.00	SECL Coal mines / Open Market	200	
3.	Limestone/ Dolomite	10000.00	Open Market	100	By Road through covered vehicles
4.	Refractory Material	300.00	Open Market	100	
	Total	**590300.00**			
FOR INDUCTION FURNACE (STEEL MELTING SHOP)					
1.	Sponge Iron	300,000.00	Captive production and Local market	0/100	Internally available/By Road

Sl.	Raw Material	Quantity (TPA)	Source	Distance from site (Kms)	Mode of transportation
					through covered vehicles
2.	Pig Iron / CI/ Scrap	37,113.00	Local Market whereas generated scrap internally used	100	By Road through covered vehicles
3.	Melting Scrap	6,200.00	Captive production	0	Internally available
4.	Ferro Alloys	3,000.00	Local market	100	By Road through covered vehicles
5.	Aluminum	300	Open Market/BALCO	100	By Road through covered vehicles
6.	Ramming Mass	750.00	Open Market	100	By Road through covered vehicles
7.	Steel Sheet Former	75.00	Open Market	100	By Road through covered vehicles
8.	LDO for Ladle Preheating	582.00	Open Market	100	By Road through Tankers
9.	Calcined Lime for Refining of Liquid Steel	15,000.00	Open Market	100	By Road through covered vehicles
10.	Fluorspar and other additives for de phos	3,000.00	Open Market	100	By Road through covered vehicles
11.	Electrode (Graphite Carbon) for Furnace*	600.00	Open Market	100	By Road through covered vehicles
	Total	**366,620.00**			
*Note: * It is proposed to set up LRF in which Graphite Carbon Electrodes will be used. If 100% capacity of hot metal is refined in LRF then 600 TPA is expected Graphite Electrodes are estimated to get consumed. Therefore, highest qty was considered for the sake of the project economics and impact.*					
FOR HOT CHARGING REROLLING MILL					
S. No.	**Item**	**Quantity (TPA)**	**Source**	**Distance from site (Kms**	**Mode of transportation**
1.	Hot Billets	153,062.00	Captive Production in Steel Melting shop	0	Internal Transfer
	Total	**153,062.00**			
FOR REHEATING FURNACE BASED REROLLING MILL					
1.	Cold MS Billets (internally available)	146,938.00	Captive production as per requirement	0	Internal Transfer
2.	Cold MS Billets (from Outside)	6,062.00	Local market as per requirement	100	By Road through covered vehicles

Sl.	Raw Material	Quantity (TPA)	Source	Distance from site (Kms)	Mode of transportation
3.	Coal	18,000.00	SECL Coal mines / Open Market	200	By Rail to the nearest railway siding at Nipania and then by Road through covered vehicles
	Total	**171,000.00**			
FOR BLACK PIPE MILL AND GALVANIZING UNIT					
1.	MS Strips	150,000.00	Captive generation from Billet Reheating Furnace	0	Internally available.
2.	Zinc	5,000.00	Open Market	100	By Road through covered vehicles
3.	Lead	50.00	Open Market	100	By Road through covered vehicles
4.	LDO	2,000.00	Open Market	100	By Road through covered vehicles
5.	Acid	4,500.00	Open Market	100	By Road through covered vehicles
6.	Lime for Treatment	2,500.00	Open Market	100	By Road through covered vehicles
	Total	**164,050.00**			
FOR CAPTIVE POWER PLANT					
1.	Char Dolochar	60,000.00	Captive generation in SID	0	Internally available.
2.	Coal	38,779.00	SECL Coal mines / Open Market	200	By Rail to the nearest railway siding Nipania and then by Road through covered vehicles
3.	Fluidizing Bed Media	150.00	Open Market	100	By Road through covered vehicles
	Total	**98,929.00**			
FOR FLY ASH BRICK PLANT					
1.	Fly Ash/ Coal Ash etc.	45,045.00	Internally available.	0	Internal Transfer
2.	Gypsum and Cement	6,930.00	Open Market	100	By Road through covered vehicles
3.	Granulated slag from Induction Furnace	17,325.00	Internally available.	0	Internal Transfer
	Total	**69,300.00**			

26.1.10 Existing water requirement is 86 m^3/day, water is obtained from ground water and permission for the same to draw upto 100 KL/day has been obtained from CGWA vide Ltr. No. CGWA/NOC/IND/REN/1/2022/7230 dated 19.08.2022 valid up to 18/08/2025. The water requirement after proposed expansion project is estimated as 1442 m^3/day (ToR – 1680), out of which 1210 m^3/day of fresh water requirement will be obtained from the surface water. The application to CG WRD for Sanction of surface water vide application no.WA00182 on dated 21.07.2021 (Present Status of application: The WRD application is forwarded from Chief engineer, Hasdeo Basin, WRD Bilaspur to Engineer in Chief WRD, Shivnath Bhavan, District Raipur).

26.1.11 Total power requirement is 37 MW, out of which 20 MW will be met through captive power plant and 17 MW will be sourced through State Grid (CSPDCL). In addition to these, total 2 X 3300 kVA DG sets are proposed for emergency backup.

26.1.12 Baseline Environmental Studies:

Period	**Post monsoon season (15th October 2021 – 15th January 2022)**
AAQ parameters at 8 Locations (min and max)	• PM_{10} = 41.0 – 80.3 µg/m^3 • $PM_{2.5}$ = 15.1 – 38.5 µg/m^3 • SO_2 = 5.1 – 15.2 µg/m^3 • NO_2 = 9.2 – 26.5 µg/m^3 • CO = 0.247 - 0.47 mg/m^3
Incremental GLC level	• PM_{10} = 0.75 µg/m^3 (Level at 0.9 km in SSW, S & SW Direction) • $PM_{2.5}$ = 0.45 µg/m^3 (Level at 0.9 km in SSW, S & SW Direction) • SO_2 = 5.8 µg/m^3 (Level at 1.4 km in SSW, S & SW Direction) • NO_x = 3.8 µg/m^3 (Level at 1.2 km in SSW, S & SW Direction) • CO due to DG Set (Standby) Operation - 11.5 Mg/M^3 • Line Source (Traffic) CO is 60.4 µg/m^3 occurring in between Belpan and Khapri Villages
Groundwater quality at 8 locations	• pH: 7.27 – 7.63, • Total Hardness: 81.32 – 185.17 mg/l, • Fluoride: 0.14 – 0.27 mg/l, • Nitrate: 5.08 – 15.68 mg/l, • Sulphate: 16.09 – 29.03 mg/l • Chloride: 45.28-93.21 mg/l • TDS: 272-442 mg/l
Surface water quality at 5 locations	pH: 6.84 – 7.16; TDS: 254 – 412 mg/l; total hardness:132 – 224.54 mg/l as $CaCO_3$; DO: 5.8 – 6.3 mg/l; BOD: 4.85 – 25.14 mg/l and COD ranges from 15.68 mg/l to 90.16 mg/l
Noise levels Leq. (Day and Night)	Noise levels at every station were within CECB/ CPCB standards. Residential Area – 51.2 to 53.9 dBA for day time and 40.82 to 43.2 dBA for night time. Commercial Area – 57.7 to 58.3 dBA for day time and 45.1 to 46.6 dBA for night time. Silence Zone – 46.2dBA to 47.5 dBA for day time and 37.8 dBA to 38.32 dBA for night time. Industrial area - 63.8 dBA for day time and 52.6 dBA for night time.

<table>
<tr><td>Traffic assessment study findings</td><td>

Traffic study has been conducted at Bhatapara to Kasdole approach road which is adjacent to the project site.
Transportation of raw material, fuel to the plant & finished product from the plant will be done 100% by road.
Existing PCU is 364 PCU/day on Bhatapara to Kasdole approach road and existing level of service (LOS) is:

<table>
<tr><th>Road</th><th>V (Volume In PCU/DAY)</th><th>C (Capacity In PCU/DAY)</th><th>Existing V/C RATIO</th><th>LOS</th></tr>
<tr><td>Approach road</td><td>364</td><td>2000</td><td>0.182</td><td>A</td></tr>
</table>
PCU load after proposed project will be 364(existing) +786.5 (additional) PCU/day and level of service (LOS) will be:
<table>
<tr><th>Road</th><th>V (Volume In PCU/DAY)</th><th>C (Capacity In PCU/DAY)</th><th>Existing V/C RATIO</th><th>LOS</th></tr>
<tr><td>Approach road</td><td>1150.5</td><td>2000</td><td>0.5752</td><td>C</td></tr>
</table>
*Note: Capacity as per IRC: 64-1990 Guideline for capacity for roads.
Conclusion: The level of service will be 0.5752 (Good) after including additional traffic due to proposed project.
</td></tr>
<tr><td>Flora and fauna</td><td>
Floral composition in Study Area
Total 131 floral species were observed in the study area. The details about the floral composition are as follows.
<ol type="a">
Trees: Total 59 species were found in the study area
Shrubs (small trees): Total 24 species were enumerated from the study area.
Herbs: In the study area 12 species were observed.
Bamboo & Grasses: 21 species were enlisted from the study area
Climbers and Twiners: Total 13 species of climbers/ twiners were recorded in the study area.
Parasite/epiphytic plant: Each 2 species enlisted in the area

RET (Rare, Endangered and Threatened species) STATUS
None of reported species in study area belongs to Rare, Endangered or Threatened category.
Fauna Details:
As per IUCN RED (2013) list
Among the reported animals, all are categorized under least concern category as per IUCN list.
As per Indian Wild Life (Protection) Act, 1972
Among mammals; Vulpes bengalensis (Indian Fox), Common Langur, Herpestes edwardsi (Common Mongoose), are protected in schedule –II. Whereas, Lepus nigricollis (Black-naped hare), Funambulus pinnati (Palm squirrel) protected in Schedule IV and Rats protected in Schedule V.
Among the Herpetofauna, Indian Cobra (Naja naja), and Common Rat Snake (Ptyas mucosa) were provided protection as per Schedule-II of Wild life protection act, (1972) and Common Indian Krait (Bungarus caerulus), Indian Toad (Bufo parietalis) were provided as per Schedule – IV of Wildlife protection act 1972 and as amended.
Among the Avifauna: All birds were observed in the study are included in schedule IV as per wildlife protection act.
</td></tr>
</table>

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

S. No	Type of Waste generated	Source	Qty. (TPA)	Mode of Treatment	Disposal
1.	Char Dolochar	Sponge Iron Production	60,000	To be used as Fuel in Power Plants-	Proposed to be Used in own captive power plant.
2.	Bottom Flue Dust Ash	Sponge Iron Production	40,000	To be used as raw material in Brick making-	Proposed to be Used in Brick making.
3.	Kiln Accretion and Refractory waste	Sponge Iron Production	1,800	To be used as raw material in Brick making and partially used as land fill-	Proposed to be Used in Brick making and low-lying areas.
4.	Mill Scale	Induction Furnace CCM and Rolling Mill	3,062	Sold to Ferro Alloys / Pellet Plants.	Sold to Ferro Alloys / Pellet Plants.
5.	Slag from Induction Furnace	Induction Furnace	54,375	Given/ Sold to metal recovery units. And also used in own plant to make Bricks.	Given/ Sold to metal recovery units. And also proposed to be used in own plant to make Bricks.
6.	Refractory and Ramming Mass waste	Induction Furnace	375	Given to refractory recycling units / used in Fly ash brick making unit / landfill.	Given to refractory recycling units / used in Fly ash brick making unit / landfill.
7.	Defective and Miss Roll	Hot Charging Rolling Mill	3,000	No treatment is required as it can be used as it is as raw material	Reused in own Induction furnace.
8.	Coal Ash	Rolling Mill reheating furnace	23,751	To be given to Cement Plants and part of it to Fly Ash Brick making unit.	To be given to Cement Plants and to Fly Ash Brick making unit.
9.	Fly Ash from AFBC	AFBC	62,451	To be given to Cement Plants and Partially Used in own Fly Ash Brick making unit and remaining will be given to outside Fly Ash bricking units.	To be given to Cement Plants and Partially Used in own Fly Ash Brick making unit and remaining will be given to outside Fly Ash bricking units.
10.	Fluidized Bed Material	AFBC	150	No treatment is required as it can be used as it is as raw material in Brick making	Used in own Fly Ash Brick making unit.
11.	MS Scrap Generated	Pipe Mill and Galvanizing	14,000	Reused in own Induction furnace.	Reused in own Induction furnace.

S. No	Type of Waste generated	Source	Qty. (TPA)	Mode of Treatment	Disposal
		unit			
12.	Mill Scale Generated in Pickling etc.	Pipe Mill and Galvanizing unit	1,000	Sold to Ferro Alloys / Pellet Plants.	Sold to Ferro Alloys / Pellet Plants.
13.	STP Sludge	STP	34	Used for Composting and then applied for Green Belt	Used for Composting and then applied for Green Belt
	Total		**2,63,998**		

HAZARDOUS WASTE GENERATION AND ITS DISPOSAL

S.No	Type of Hazardous Waste	Source	H. W. Category	Quantity	Mode of Treatment	Disposal
1.	Waste Oil/Used Oil	Equipment's and Machineries in plant processes	Sch. I, 5.1	4 KL	Partly used for lubrication and will be stored in covered HDPE Drums & will be given to CECB approved vendors/authorized recycler.	Partly used for lubrication and will be stored in covered HDPE Drums & will be given to CECB approved vendors/authorized recycler.
2.	Zinc dross Generated*	Galvanizing Process	Sch. IV, Sl.11	250.00	Sold to registered recyclers.	Sold to registered recyclers.
3.	Acid Neutralization Lime Sludge Generated	Acidic Waste treatment Process for Galvanizing unit	Sch. I, 35.3	7,000.00	Sold to registered recyclers.	Sold to registered recyclers.
4.	Lead Dross generation*	Galvanizing Process	Sch. I, 9.1	12.50	Sold to registered recyclers.	Sold to registered recyclers.
	Total			**7262.5**		

**** Separate Effluent treatment plant (30 KLD) is proposed to be set up for neutralization of Acidic waste water from pickling and galvanizing unit.***

26.1.14 Public Consultation:

Details of advertisement given	• Dainik Bhaskar - Dated 25.03.2022 • Business Standard - Dated 25.03.2022
Date of public consultation	27.04.2022
Venue	Village - Belpan, Tahsil - Masturi, District - Bilaspur, State Chhattisgarh.
Presiding Officer	Mr. Harish S CEO and I/c. Additional District Magistrate, Bilaspur

Major issues raised	• Concern about impact on Crops and Human Health due to likely Air Pollution. Compensation to be given for farmers whose crop get damaged. • Concern about water pollution and water withdrawal, Scarcity of drinking water and sanitation. • Concern about availability of water for agriculture • Rejuvenation of water resource • Concern about priority to outsiders in employment. • Concern about respiratory problem due to air pollution (Failed to control its existing pollution) • Concern about the Road. Road is very bad in condition • Demand for Lift Irrigation • Commitment of PP towards Compliance of demands, jointly demanded by villagers of the three Villages namely Belpan, Khapri and Kokadi • CSR funds should be spent locally.

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

Sr. No.	Particulars	Physical Status	Target of Implementation of Action Plan (Timeline)			Rs. (in lakhs)
			1ST YEAR (F.Y. 2023-24)	2ND YEAR (F.Y. 2024-25)	3RD YEAR (F.Y. 2025-26)	
1.	**Lift Irrigation**	**Location : Belpan** **Physical work:** Implementation of intake well and pumping facility of water from Shivnath river to existing canals	Work will be started April 2023	The work will be continued during the year	It will completed by June 2025	50
2.	**Medical Facility (OPD and Pathology centre)**	**Location : Village-Belpan** **Physical Work :** Construction of 2000 Sqft Building with OPD chamber, Pathology centre with X-ray, Sonography etc	Work will be started from February 2024	Progress of work completion of building and starting partial operation by March 2025	Completion of work by March 2026	125
3.	**Green Belt development at Community Land**	**Location : Village-Belpan and Khapri** **Work :** Development of Greenbelt at the approach roads to Village Community Area and internal roads of village and approach road of Plant **No of Sapling: 5000**	Starting of Plantation April 2023	Completion of work July 2024	-	15
4.	**Rain Water Harvesting at**	**Location : Village-Belpan and Khapari**	-	Work will be started from April 2025	Completion of work by March 2026	15

Sr. No.	Particulars	Physical Status	Target of Implementation of Action Plan (Timeline)			Rs. (in lakhs)
			1ST YEAR (F.Y. 2023-24)	2ND YEAR (F.Y. 2024-25)	3RD YEAR (F.Y. 2025-26)	
	Community Area	**Work:** Rain Water Harvesting Structure implementation at Community i.e. School, Panchayat, etc. **No of RWH : 15 Nos**				
5.	**Solar Street Lighting**	**Location : Village-Belpan and Khapari** **Work :** Solar Streelight in village Road of Belpan and Khapar **No. of Light: 30 Nos**	-	Starting Implementation of Street light by August 2024 and completed by December March 2025	-	25
6.	**Water Shed Management**	Location- Village-Belpan, Khapari Work: Water Shed management to improve ground water recharge as well as augment the surface water storage tank. Along with deepening of village Tank	Work will be started by April 2023	Completed by June 2024	-	50
7.	**Gobar Gas (bio gas) plant installation**	Location : Village Belpan and Village Khapari Work : Implementation of community Gobar Gas (Bio Gas) Plant	-	Work will be started form April 2025	Completion of work by March 2026	25
8.	**Village Road Drainage Improvement**	**Location :** Village-Belpan and Khapri **Work:** 4 KM Internal road at Village. **Work Proposed:** Strengthening of village roads with drains	-	Work will be started form April 2025	Completion of work by March 2026	25
					Total Rs. =	**330.00**

26.1.15 The existing capital cost of project was 2892.72 Lakhs. The capital cost after proposed expansion project is Rs 23193.72 Lakhs and capital cost for environmental protection measures project is proposed as Rs 3300 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs.74.60 Lakhs. The employment generation from proposed project is 945 (130 existing + 815 additional). The details of cost for environment protection measures is as follows:

S. No.	Particulars	Existing (Cost in Lakhs)		Proposed addition (Cost in Lakhs)		Final estimated cost after expansion	Recurring cost
		Nos.	Cost	Nos.	Cost	Cost (Lakhs)	
1	Dry ESP for DRI Kilns with Four Fields	2	350	4	1100	1450	29.0
2	Bag Houses (PTFE type) for the Sponge Iron Kilns	4	160	4	160	320	6.4
3	Cost of common Chimney for SID	1	35	1	75	110	2.2
4	Cost of Bag Houses (PTFE type) and Chimney for Induction Furnaces	0		2	80	80	1.6
5	Cost of common Chimney for IF	0		1	30	30	0.6
6	Cost of Rotary Vane Wet Scrubber for Rolling Mill for Reheating Furnaces	0		1	25	25	0.5
7	Cost of common Chimney for Reheating Furnace	0		1	30	30	0.6
8	Cost of APCD at Galvanization unit, Fume Extraction System, Wet Scrubber			1	40	40	0.8
9	Cost of common Chimney for Galvanizing	0		1	30	30	0.6
10	Cost of Dry ESP for FBC with 4 Fields			1	275	275	5.5
11	Cost of Bag Houses (PTFE type) for Boiler Furnaces for Power Plant Coal Handling and Ash Handling Area			2	50	50	1.0
12	Cost of common Chimney for Power Plant (FBC)	0		1	75	75	1.5
13	Cost of Industrial ETP/ Settling Tank (existing) etc.	1	20	1	50	70	1.8
14	Cost of STP for Domestic Waste	0		1	20	20	0.3
15	Oil Trap in the drains system				10	10	0.2
16	Silt Arrestation Pit in Storm Water Drains				10	10	0.2
17	Fugitive dust Control Spray system in Plant (water sprinklers, dry mist fog sprinklers, etc.)	3	10	5	15	25	0.5
18	Movable Vacuum cleaning system (mechanical dust sweepers)				20	20	0.3
19	Wheel Washing System in Security area				10	10	0.2
20	On Line stack Monitoring three sets in DRI with Power; Induction Furnace and in Rolling mill	1	5	5	25	30	0.5
21	On Line AAQ station				70	70	2.1
22	High Volume sampling and Stack Monitoring Kits	4	5			5	0.1
23	Weather Monitoring Station			1	5	5	0.1
24	Internal Road and other construction works		30		20	50	0.8
25	Drainage system		10		20	30	0.5
26	Green belt Development		15		50	65	6.0

S. No.	Particulars	Existing (Cost in Lakhs)		Proposed addition (Cost in Lakhs)		Final estimated cost after expansion	Recurring cost
		Nos.	Cost	Nos.	Cost	Cost (Lakhs)	
27	Rain Water Harvesting and Recharge system with Roof Harvesting	4	2	4	8	10	0.3
28	Environmental Monitoring & Other Misc. cost		10		15	25	10.4
29	EMP for Socio Economic Development (Capex)				330	330	
	Total		**652**		**2648**	**3300**	**74.6**

26.1.16 After proposed expansion green belt will be developed in 8.96 ha this is about 35% of the total project area. Thus total of 8.96 ha area (35% of total project area) will be developed as greenbelt. A 30m 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 22400 saplings (Existing – 4000 Nos. + Proposed - 18400 Nos. Sapling) will be planted and nurtured in 8.96 hectares in 2 years.

26.1.17 It is reported that there is no violation of EIA Notification 1994 or EIA Notification 2006 or court case/show cause/direction against project.

Certified Compliance report from SPCB

26.1.18 The project proponent has reported that as per the Office Memorandum of MOEFCC vide F.No. IA3-22/10/2022-IA.III (E 177258) dated 08.06.2022 for expansion proposal which are currently operating under Consent to Operate under Air Act and Water Act; the self-certified compliance report for latest CTO is sufficient; if the CTO / Renewal is granted within one year at the time of application for EC. The company has got consent renewed on 04.08.2022 through CECB consent renewal letter No. 3286/TS/CECB/2022 Nava Raipur Atal Nagar.

Deliberations by the Committee

26.1.19 The Committee noted the following:

1. The project proponent has not obtained certified compliance report (CCR) of the CTO based on which the existing project is operational. The EAC also recorded the statement of PP/Consultant wherein PP/Consultant has not obtained the CCR in view of clause 4(B)(iv) of the Ministry's OM vide F.No. IA3-22/10/2022-IA.III (E 177258) dated 08.06.2022 and further deliberated that PP/Consultant has misunderstood the provision and CCR is mandatory for appraisal of the expansion project. Self Certified Compliance report of the recent CTO is acceptable in case where PP has already obtained CCR for the previous CTO and the grant of recent CTO has not completed period of one year. Thus

EAC is of the view that in pursuance to the said OM dated 08.06.2022 and as per the TOR condition, PP has to obtain the CCR from SPCB, only after which the proposal cannot be considered for appraisal.

2. The PP shall submit all the details/documents [viz. CTE/CTO since inception of the project and all production details] w.r.t. applicability of prior EC under EIA Notification.

3. The EAC noted that PP/Consultant has not filled the application Form carefully. For instance, in Part B of the form, PP has mentioned the start date of construction activity of proposed project as 01.02.2023 whereas the application for the proposed project has been applied on 18.03.2023. Therefore, the EAC opined that PP/Consultant shall review its application for provide the correct information as desired in the application form.

4. The EAC deliberated on the existing greenbelt and noted that the greenbelt development is unsatisfactory in spite of the fact that the plant has been in operation since 2005. Therefore, EAC is of the view that PP shall prepare a robust greenbelt development plan as per the CPCB norms.

5. The PP/Consultant presented the drone survey video before the Committee and EAC observed that housekeeping of the plant is very poor. The EAC suggested to improve the housekeeping of the plant area. PP shall submit the housekeeping plan along with the photographs in this regard.

6. The EAC deliberated on the water requirement proposed for the project and is of the view that water requirement shall be revisited and revised water balance shall be presented before the EAC.

7. In view of above, the PP accepted that CCR is pre-requsite for expansion project and requested the Committee to allow to reappear with the revised information/ clarification to the points deliberated during appraisal.

Recommendations of the Committee

26.1.20 In view of the foregoing and after deliberations, the Committee recommended that proposal to be **returned in its present form** to address the technical shortcomings enumerated at para no. 26.1.19 above and submit the revised application as per the provisions of EIA Notification, 2006.

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Agenda No. 26.2

26.2 Expansion of Shakambhari Ispat & Power Limited plant for production of 0.7875 million tons per annum Crude Steel/Stainless Steel, 0.214272 million tons per annum Ferro-Alloys (maximum) along with allied facilities by M/s Shakambhari Ispat and Power Ltd., located at Village: Parvatpur, Madandih, Radhamadabpur, P.O.: Bortoria, Tehsil: Raghunathpur, District: Purulia, West Bengal- Consideration of EC Proposal.

[Proposal No. IA/WB/IND1/411013/2022; File No. IA-J-11011/282/2021-IA-II(1)]
[Consultant: Vardan Environet; Valid upto 05.05.2023]

26.2.1 M/s Shakambhari Ispat & Power Limited has made online application vide proposal no. IA/WB/IND1/411013/2022 dated 24.03.2023 along with copy of EIA/EMP report, in prescribed format (CAF, Form – I Part A, B &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), 2(a) Coal Washeries, 2(b) Mineral Beneficiation and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.

26.2.2 Name of the EIA consultant: M/s. Vardan Environet [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2023/SA 0158; Valid up to 05.05.2023, as on April 20, 2023].

Details submitted by Project proponent

26.2.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
12.07.2021	Standard Terms of Reference granted	Terms of Reference	15.08.2021	14.08.2025
23.11.2021	49th meeting of REAC (Industry-1) held on 16-17th December 2021.	Amendment to ToR	10.01.2022	

26.2.4 The project of M/s Shakambhari Ispat & Power Limited (SIPL) located in the Villages: Parvatpur, Radhamadhabpur, Madandih, P.O.: Bortoria, Tehsil: Raghunathpur, District Purulia, West Bengal is for enhancement of Crude Steel Production from 0.5236 MTPA MS Billets to 0.7875 MTPA MS/ SS Billets, Long Steel Production from 0.3MTPA MS products to 0.66MTPA MS/ SS long products, Ferro Alloys production from 0.0632 MTPA to 0.2143 MTPA and Captive Power Generation from 99 MW to 126 MW, along with allied facilities.

26.2.5 Environmental Site Settings:

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>1.</td><td>Total land</td><td>81.103Ha (200.41Acres) [Private: 71.71Ha]</td><td>Landuse: Industrial</td></tr>
<tr><td>2.</td><td>Land acquisition details as per MoEF&CC O.M. dated 7/10/2014</td><td>A total land area of 81.103Ha (200.41 Acres) is under possession of SIPL. The Expansion Unit will be setup in Existing as well as Proposed land.</td><td>--</td></tr>
<tr><td>3.</td><td>Existence of habitation & involvement of R&R, if any.</td><td>R&R is not applicable

Existence of Habitation
Project Site – Nil
Study Area
<table>
<tr><th>Habitation</th><th>Distance</th><th>Direction</th></tr>
<tr><td>Madandih</td><td>0.05Kms</td><td>East</td></tr>
</table>
</td><td>--</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>4.</td><td>Latitude and Longitude of all corners of the project site.</td><td>
<table>
<tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>23º37’37.899”N</td><td>86º47’29.202”E</td></tr>
<tr><td>2</td><td>23º37’41.569”N</td><td>86º47’29.031”E</td></tr>
<tr><td>3</td><td>23º37’42.829”N</td><td>86º47’19.000”E</td></tr>
<tr><td>4</td><td>23º37’34.580”N</td><td>86º47’15.498”E</td></tr>
<tr><td>5</td><td>23º37’29.049”N</td><td>86º47’20.148”E</td></tr>
<tr><td>6</td><td>23º37’22.363”N</td><td>86º47’20.284”E</td></tr>
<tr><td>7</td><td>23º37’9.251”N</td><td>86º47’21.786”E</td></tr>
<tr><td>8</td><td>23º37’4.938”N</td><td>86º47’17.689”E</td></tr>
<tr><td>9</td><td>23º36’57.878”N</td><td>86º47’14.693”E</td></tr>
<tr><td>10</td><td>23º36’47.412”N</td><td>86º47’10.438”E</td></tr>
<tr><td>11</td><td>23º36’43.398”N</td><td>86º47’17.694”E</td></tr>
<tr><td>12</td><td>23º36’38.246”N</td><td>86º47’19.755”E</td></tr>
<tr><td>13</td><td>23º36’20.087”N</td><td>86º47’24.490”E</td></tr>
<tr><td>14</td><td>23º36’44.871”N</td><td>86º47’30.640”E</td></tr>
<tr><td>15</td><td>23º36’51.666”N</td><td>86º47’30.704”E</td></tr>
<tr><td>16</td><td>23º36’57.043”N</td><td>86º47’32.690”E</td></tr>
<tr><td>17</td><td>23º37’10.700”N</td><td>86º47’32.539”E</td></tr>
<tr><td>18</td><td>23º37’18.895”N</td><td>86º47’32.569”E</td></tr>
<tr><td>19</td><td>23º37’24.314”N</td><td>86º47’29.900”E</td></tr>
<tr><td>20</td><td>23º37’29.717”N</td><td>86º47’31.515”E</td></tr>
<tr><td>21</td><td>23º37’35.187”N</td><td>86º47’29.311”E</td></tr>
<tr><td>22</td><td>23º37’35.485”N</td><td>86º47’20.161”E</td></tr>
<tr><td>23</td><td>23º37’38.608”N</td><td>86º47’20.161”E</td></tr>
<tr><td>24</td><td>23º36’18.708”N</td><td>86º47’34.719”E</td></tr>
<tr><td>25</td><td>23º36’11.938”N</td><td>86º47’31.451”E</td></tr>
<tr><td>26</td><td>23º36’12.491”N</td><td>86º47’38.815”E</td></tr>
<tr><td>27</td><td>23º36’15.512”N</td><td>86º47’43.456”E</td></tr>
<tr><td>28</td><td>23º36’21.019”N</td><td>86º47’38.540”E</td></tr>
<tr><td>29</td><td>23º36’23.137”N</td><td>86º47’32.735”E</td></tr>
</table>
</td><td>--</td></tr>
<tr><td>5.</td><td>Elevation of the project site</td><td>183 m above mean sea level</td><td>--</td></tr>
<tr><td>6.</td><td>Involvement of Forest land, if any</td><td>No involvement of Forest Land</td><td>--</td></tr>
<tr><td>7.</td><td>Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area</td><td>Project Site: No water bodies within the project site
Study area
<table>
<tr><th>Water Body</th><th>Distance</th><th>Direction</th></tr>
<tr><td>Uttala Nadi</td><td>5.10km</td><td>West</td></tr>
<tr><td>Panchet Reservoir</td><td>5.8km</td><td>West</td></tr>
<tr><td>Ramchandrapur Reservoir</td><td>5.5km</td><td>SE</td></tr>
<tr><td>Damodar River</td><td>6.0km</td><td>North</td></tr>
<tr><td>Panchet Dam</td><td>7.15km</td><td>NW</td></tr>
</table>
</td><td>--</td></tr>
</table>

S. No.	Particulars	Details	Remarks
8.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	No ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. within the study area List of Reserved and Protected Forest in Study area: 1. Panchet RF 2. Senara RF 3. Brindabanpur PF 4. Muktipur PF 5. Behti PF 6. Dubrajpur PF 7. Dandahit PF 8. Ledium PF 9. Nimtikuri PF 10. Indra Pahari PF	--

26.2.6 The existing project was accorded environmental clearance vide lr no. J-11011/201/2013-IA.II(I) on 21st December, 2016 amendment to it was issued on 29th April, 2020. Consent to Operate has been issued by West Bengal Pollution Control Board Vide Consent Letter No. CO110135 dated 09.08.2018, CO107584 dated 06.12.2018, CO113782 dated 06.09.2019, CO128922 dated 13.02.2020, CO128973 dated 14.08.2020, CO128998 dated 13.11.2020, CO131924 dated 10.03.2021 and CO132113 dated 22.12.2021. The validity of CTOs are up to 31.07.2023.

26.2.7 Implementation status of the existing EC:

Sl. No	Facilities	Units	As per EC dated 21.12.2016 & amended on 29.04.2020	Implementation Status 31.03.2023	Production as per CTO
1.	Coal Washery	740,000TPA	As per EC dated 21.12.2016 & amended on 29.04.2020	Shall be Implemented	--
2.	Iron Ore Beneficiation Plant	630,000 TPA		Shall be implemented under the proposed expansion with changed configuration	--
3.	Pellet Plant	1x1870TPA			
4.	Sponge Iron Plant	4x100TPD 2x350TPD 1x600TPD		Implemented	544,000
5.	Sinter Plant	1x20m^2		Shall be implemented under the proposed expansion with changed configuration	--
6.	Mini Blast Furnace	1x350m^3			
7.	Induction Furnace with LRF/ VOD	9x25Ton IF LRF 1x30T & CCM 3x6/11m		7x25 Ton IF & CCM 3x6/11m implemented and 2x25T is under implementation and	3,97,420

Sl. No	Facilities	Units	As per EC dated 21.12.2016 & amended on 29.04.2020	Implementation Status 31.03.2023	Production as per CTO
				LRF 1x30T shall be implemented	
8.	Rolling Mill	1,000TPD		Implemented	300,000
9.	Lime Plant	80,000TPA		Shall be Implemented	--
10.	Oxygen Plant	225TPD		Shall be Implemented	--
11.	Ferro Alloy Plant	4x9MVA		Implemented	FeMn/SiMn/ FeCr/FeSi/ Pig Iron- 63,150 TPA
12.	AFBC/ CFBC	62MW		AFBC - 8.5MW and CFBC – 25MW implemented and CFBC – 28.5MW will be implemented	33.5MW
13	WHRB	37MW		Implemented	37MW

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

Sl. No.	Plant Equipment/ Facility	Existing Facility as per EC dated 21.12.2016 & amended on 29.04.2020								Proposed Unit		Final	Remarks
		Total		Implemented		Un implemented		As per CTO					
		Configuration	Capacity(TPA)	Configuration	Capacity(TPA)	Configuration	Capacity(TPA)	Configuration	Capacity(TPA)	Configuration	Capacity(TPA)		
1.	Pellet Plant	1x1870TPD	582,000	--	--	1x1870TPD	582,000	--	--	Capacity enhancement	268,000	850,000	--
2.	Producer Gas Plant	--	--	--	--	--	--	--	--	6x4000 Nm^3/hr	24,000 Nm^3/hr	24,000 Nm^3/hr	--
3.	Sponge Iron Plant	DRI Kiln 4x100TPD + 2x350TPD + 1x600TPD	544,000	DRI Kiln 4x100TPD + 2x350TPD + 1x600TPD	544,000	--	--	DRI Kiln 4x100TPD + 2x350TPD + 1x600TPD	544,000	Capacity enhancement of 4x100TPD+ 2x350TPD+ 1x600TPD	30,400 (additional) 53,200 (additional) 45,600 (additional)	910,800	--
										1x600TPD (additional DRI	237,600		
4.	Blast Furnace	Mini Blast Furnace: 1x350m3 Pig casting Machine: 1x1500TPD	249,900	--	--	Mini Blast Furnace: 1x350m3 Pig casting Machine: 1x1500TPD	249,900	--	--	Capacity enhancement of Mini Blast Furnace: 1x350m^3	166,600 (additional)	416,500	--
5.	Sinter Plant	1x20m^3	198,000	--	--	1x20m^3	198,000	--	--	Sinter Plant of changed configuration 1x90m^2 will be installed	597,600 (additional)	795,600	--
6.	SMS	9x25T Induction Furnace LRF: 1x30T & CCM: 3x6/11	523,950	7x25 Ton IF & CCM 3x6/11m	400,720	2x25T and LRF 1x30T	123,230	7x25 Ton IF & CCM 3x6/11m	400,720	Capacity enhancement/ Product Modification+ 1x25 Ton AOD	263,550 MS/SS Billets (additional)	787,500	--
7.	Rolling Mill along with wire drawing facility	1000TPD	300,000	1000TPD	300,000	--	--	1000TPD	300,000	1000TPD	360,000 MS/SS Long Products	660,000	
8.	Reheating Furnace	--	--	--	--	--	--	--	--	2x40TPH	--	2x40TPH	--
9.	Oxygen Plant	--	225TPD	--	--	--	225TPD	--	225TPD	--	--	225TPD	-

Sl. No.	Plant Equipment/ Facility	Existing Facility as per EC dated 21.12.2016 & amended on 29.04.2020								Proposed Unit		Final	Remarks
		Total		Implemented		Un implemented		As per CTO					
		Configuration	Capacity(TPA)	Configuration	Capacity(TPA)	Configuration	Capacity(TPA)	Configuration	Capacity(TPA)	Configuration	Capacity(TPA)		
10.	Captive Power Plant	AFBC - 36 TPH	8.5 MW	AFBC - 36 TPH	8.5 MW	--	--	AFBC - 36 TPH	8.5 MW	--	--	8.5MW	--
		CFBC - 100 TPH	25 MW	CFBC - 100 TPH	25 MW	--	--	CFBC - 100 TPH	25 MW	--	--	25MW	--
		CFBC - 120 TPH	28.5 MW	--	--	CFBC - 120 TPH	28.5 MW	--	--	--	--	28.5MW	--
		WHRB @4x100TPD DRI - 40 TPH	8 MW	WHRB @4x100TPD DRI - 40 TPH	8 MW	--	--	WHRB @4x100TPD DRI - 40 TPH	8 MW	--	--	8MW	--
		WHRB @2x 350TPD DRI- 71 TPH	15 MW	WHRB @2x 350TPD DRI- 71 TPH	15 MW	--	--	WHRB @2x 350TPD DRI- 71 TPH	15 MW	--	--	15MW	--
		WHRB @1x 600TPD DRI - 64TPH	14 MW	WHRB @1x 600TPD DRI - 64TPH	14 MW	--	--	WHRB @1x 600TPD DRI - 64TPH	14 MW	--	2MW	16MW	--
		--	--	--	--	--	--	--	--	WHRB @1x 600TPD DRI - 64TPH	16 MW	16MW	--
		--	--	--	--	--	--	--	--	BF Gas Based	9 MW	9MW	
												126MW	
11.	Iron Ore Beneficiation	--	0.63 MTPA	--	--	--	0.63 MTPA	--	--	Change in Configuration from 0.63MTPA to 1.0 MTPA	0.37 MTPA (additional)	1.0MTPA	--
12.	Coal Washery	--	0.74 MTPA	--	--	--	0.74 MTPA	--	--	--	--	0.74MTPA	--
13.	Lime Plant	250TPD	80,000	--	--	250TPD	80,000	--	--	--	--	80,000 TPA	--

Sl. No.	Plant Equipment/ Facility	Existing Facility as per EC dated 21.12.2016 & amended on 29.04.2020								Proposed Unit		Final	Remarks
		Total		Implemented		Un implemented		As per CTO					
		Configuration	Capacity(TPA)	Configuration	Capacity(TPA)	Configuration	Capacity(TPA)	Configuration	Capacity(TPA)	Configuration	Capacity(TPA)		
			TPA				TPA						
14.	Ferro Alloy Plant with Metal recovery Plant	4x9MVA SAF with metal recovery Plant	63,150 TPA Fe-Mn or Si. Mn or Fe Si or High Carbon Ferro Chrome, or Pig Iron, or in combination of any	4x9MVA SAF with metal recovery Plant	63,150 TPA Fe-Mn or Si. Mn or Fe Si or High Carbon Ferro Chrome, or Pig Iron, or in combination of any	--	--	4x9MVA SAF with metal recovery Plant	63,150 TPA Fe-Mn or Si. Mn or Fe Si or High Carbon Ferro Chrome, or Pig Iron, or in combination of any	Capacity enhancement of 4x9MVA SAF + Additional installation of 4x9MVA SAF	Fe-Mn- 194,058 or Si. Mn- 142,848 or Fe Si –64,282 or High Carbon Ferro Chrome – 135,330, or Ferro Silico Chrome – 88,664, or Pig Iron-214,272, or in combination of any	Fe-Mn- 194,058, or Si. Mn- 142,848 or Fe Si – 64,282 or High Carbon Ferro Chrome – 135,330, or Ferro Silico Chrome – 88,664, or Pig Iron- 214,272, or in combination of any	--
15.	Briquette Plant	--	--	--	--	--	--	--	--	1x 50 TPH	300,000	300,000	--
16.	Sinter Plant	--	--	--	--	--	--	--	--	1x600 TPD	216,000	216,000	--

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

Sl. No.	Raw Material	Quantity (TPA)			Source	Distance (km)	Mode of Transport
		Existing	Expansion	Total			
A	**Steel Making Division**						
A-01	Iron Ore	533,880	19,182	553,062	Odisha/ Jharkhand	500	**Rail** Will brought by trucks into the plant from Chaurasi Railway siding at distance of 0.15km plant
A-02	Iron Ore fines	1,016,805	10,51,545	2,068,350	Odisha/ Jharkhand	500	
A-03	PCI Coal	32,485	21,660	54,145	West Bengal	300	
A-04	Non-Coking Coal	1,609,683	3,77,010	1,986,693	West Bengal	300	
A-04	Limestone	135,928	85,012	220,940	Birmitrapur, Odisha	350	
A-05	Dolomite	45,694	79,158	124,852	Imported (Haldia Port)	300	
A-06	Quick Lime	9,010	27,190	36,200	Local Market	50	Road
A-07	Coke Breeze	18,018	50,495	68,513	Local Market	50	
A-08	Coke	112,455	74,970	187,425	Local Market	50	
A-09	Purchased + Return Scrap	54,500	27,400	81,900	Local Market	50	
A-10	Scrap for AOD	--	2,29,320	229,320	Local market/ Import	50	
A-11	Bentonite	6,000	2,500	8,500	Kutch, Gujarat	2100	
A-12	Ferro-alloys	6,866	3,453	10,319	In-House	--	In-House
A-13	Ferro-alloys for AOD	--	2,07,207	207,207	Internal/ Local Market	50	In-House/ Road
A-14	Calcined Lime for AOD	--	40,950	40,950	Internal	--	In-House
A-15	Calcined Dolomite for AOD	--	40,950	40,950	Internal	--	
B	**Ferro Alloys Division**						
B-01	Mn Ore	137,262	3,28,477	465,739	Imported/ Domestic	300	**Rail** Will brought by trucks into the plant from Chaurasi Railway
B-02	Coke	25,737	61,589	87,326	Imported/ Domestic	300	
B-03	Limestone	15,788	37,780	53,568	Birmitrapur, Odisha	350	
B-04	Chrome Ore (Friable)	13,162	31,497	44,659	Odisha	500	

Sl. No.	Raw Material	Quantity (TPA)			Source	Distance (km)	Mode of Transport
		Existing	Expansion	Total			
B-05	Ferro-chrome chips	--	49,652	49,652	Odisha	500	siding at distance of 0.15km plant
B-06	Iron ore / Mn Ore Fines	--	282,839	282,839	Odisha/ Jharkhand	500	
B-07	Magnesite	1,994	4,773	6,767	Imported	300	
B-08	Dolomite	5,719	35,287	41,006	Imported	300	
B-09	Charcoal	18,945	45,337	64,282	Local Market	50	Road
B-10	Steam Coal	13,893	33,247	47,140	Local Market	50	
B-11	Quartz	33,343	79,793	113,136	Local Market	50	
B-12	Electrode Paste	972	3,461	4,433	Local Market	--	
B-13	Hydrated Lime	--	9,900	9,900	Local Market	50	
B-14	Molasses	--	15,840	15,840	Local Market	50	
B-15	Briquettes	75,780	1,81,347	257,127	Internal	--	In-House
B-16	Sinter	83,358	1,99,481	282,839	Internal	--	
B-17	Fe-Mn Slag	25,260	60,449	85,709	Internal	--	
B-18	Mill Scale	17,682	42,314	59,996	Internal	--	
B-19	Coke Breeze	--	17,280	17280	Internal	--	

26.2.10 Existing water requirement is 8,745m3/day, water requirement is obtained through surface water from Panchet Dam and permission for the1.69MGD has been obtained from DVC vide letter no. MRO/Tariff Cell/SIPL/246 dated 15.11.2022. The water requirement after the proposed expansion is estimated as 15,139m3/day, out of which 13,735m3/day of fresh water requirement will be obtained from the DVC and remaining will be recycled water. The permission of drawl of additional water requirement will be obtained from DVC with implementation of the project.

26.2.11 Existing power requirement of 128.9MW, out of which 99 MW is being obtained from CPP and 29.9 MW is obtained from DVC vide agreement dt. 09.11.2015. The power requirement after the proposed expansion is estimated as 209.5MW, out of which 126bMW will be sourced from CPP and 83.5MW will be obtained from DVC.

26.2.12 Baseline Environmental Studies:

Period	December 2019 to February 2020	Additional study (if any)
AAQ parameters at 8 Locations (min and max)	• $PM_{2.5}$: 20.4 µg/m^3 to 43.3µg/m^3 • PM_{10}: 47.4µg/m^3 to 81.7µg/m^3 • SO_2: 10.0µg/m^3 to 19.5µg/m^3 • NO_2: 16.2µg/m^3 to 34.2µg/m^3 • CO: 0.59mg/m^3 to 1.00mg/m^3	--

<table>
<tr><th>Period</th><th>December 2019 to February 2020</th><th>Additional study (if any)</th></tr>
<tr><td>Incremental GLC level</td><td>• PM_{10} – 4.0097 μg/m^3
• $PM_{2.5}$ – 2.4048 μg/m^3
• SO_2 – 3.1981 μg/m^3
• NOx – 2.9676 μg/m^3
• CO – 0.000179 mg/m^3
(All maximum incremental values are at Village Radhamadhabpur at a distance of 0.42Km)</td><td>--</td></tr>
<tr><td>Ground water quality at 8 locations</td><td>pH -7.49 to 7.84, Total Hardness -189.65 to 297mg/l, Total Dissolved Solids – 384 to 585 mg/l, Chlorides - 62.44 to 93.49 mg/l, Fluoride- 0.31 to 0.58 mg/l, Zinc – 0.96 to 1.65 mg/l, Fe – 0.21 to 0.3 mg/l</td><td>--</td></tr>
<tr><td>Surface water quality at 8 locations</td><td>pH – 7.48 to 7.78, Dissolved Oxygen – 5.56 to 6.4 mg/l, BOD – 8.00 to 19.00 mg/l, COD – 23.0 to 45.08 mg/l, TSS- 48.0 to 94.0 mg/l</td><td>--</td></tr>
<tr><td>Noise levels Leq (Day and Night)</td><td>48.7 to 68.1 dB(A) for day time and 34.8 to 56.8 dB(A) for night time</td><td>--</td></tr>
<tr><td>Traffic assessment study findings</td><td>• Traffic study has been conducted at SH-5 which is at 700m from the project site.
• Transportation of Raw material, Fuel and Finished product will be done 15% by Road
• Existing PCU is 161.81PCU/hr on SH-5 and existing level of service (LOS) is B
<table>
<tr><th>Road</th><th>V (Volume in PCU/hr.)</th><th>C (Capacity in PCU/hr)</th><th>Existing V/C Ratio</th><th>LOS</th></tr>
<tr><td>SH-5</td><td>161.81</td><td>625</td><td>0.26</td><td>B</td></tr>
</table>
• PCU load after proposed project will be 207.77 PCU/hr. (Existing 161.81 + Addl. 45.96) for SH-5 and level of service (LOS) will be;
<table>
<tr><th>Road</th><th>V (Volume in PCU/hr)</th><th>C (Capacity in PCU/hr)</th><th>Existing V/C Ratio</th><th>LOS</th></tr>
<tr><td>SH-5</td><td>207.77</td><td>625</td><td>0.33</td><td>B</td></tr>
</table>
*Note: Capacity as per IRC 64: 1990, Guide line for capacity for roads in Rural Areas
Level of Service will be “B” i.e. Very Good for SH-5 including additional traffic due to proposed project.</td><td>Capacity of Roads as per IRC 64 is 15000 PCU/day i.e 625PCU/hr</td></tr>
<tr><td>Flora and fauna</td><td>There is no Schedule-1 Species of Fauna in the Study area</td><td>--</td></tr>
</table>

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

Sl. No.	Type of Waste	Source	Quantity Generated (TPA)	Mode of Treatment	Disposal
1.	Slag	Induction Furnace	114,250 (After metal recovery)	Will be Collected and conveyed to slag crushing unit for recovery of metals	Total Slag generation shall be 126945 TPA, however after recovery of 12695 TPA of metal, remaining slag of approx. 114251 TPA will be used as aggregates
2.	Bag Filter Dust	Induction Furnace	24,570	--	Will be reused in Sinter Plant/Pellet Plant
3.	Slag	AOD	23,760	Will be processed in the Jiggling Plant for metal recovery	After processing in Jigging Plant for metal recovery, the remaining slag, after TCLP test, shall be used in Cement making as a mixture of raw materials, replacing some amount of natural raw materials limestone and clay or shall be crushed and given to Paving blocks / Paving Tiles manufacturing Units or will be used as aggregate
4.	Bag Filter Dust	AOD	3,960	--	Shall be recycled after briquetting in Briquetting Plant.
5.	Scale - CCM	SMS	9,830	--	MS Scale shall be used for production of Fe-Si or Fe- Si-Cr. Or will be used in Sinter Plant. SS scale will be recycled in the Induction furnace
6.	Mill Scale	Rolling Mill	9,900	--	MS scale will be reused in Sinter Plant SS scale will be recycled in the Induction Furnace.
7.	Dolochar	Sponge Iron Plant	182,160	--	Will be used in AFBC/CFBC Boiler for power generation
8.	Wet Scrapper Sludge	Sponge Iron Plant	23,354	--	Will be used in CPP for power generation
9.	ESP Dust	Sponge Iron Plant	107,428	--	Will be given to Cement manufacturing and Brick making Units. Excess dust will be given to ECL for mine stowing of abandoned mines.
10.	Rejects	Coal Washery	50,000	--	Will be used in CPP along with Coal
11.	Tailings	Beneficiation Plant	375,000	--	Will be sold to tile manufacturing company

Sl. No.	Type of Waste	Source	Quantity Generated (TPA)	Mode of Treatment	Disposal
12.	Dust	Pellet Plant	43,350	--	Will be Reused in Pellet Plant
13.	Tar	Producer Gas Plant	1,782	--	Will be given to nearby Coke Oven plant and/ or will be used as alternative fuel in Pellet Plant and/ or shall be used for road making and may also be sold to the authorized vendor.
14.	Ash (Cinder)	Producer Gas Plant	16,038	--	Will be given to the brick manufacturing plants
15.	Slag	Blast Furnace	162,435	--	Will be used in the nearby Cement Plant
16.	Flue Dust	Blast Furnace	6,250	--	Will be used in the Sinter Plant
17.	ESP Dust	Sinter Plant	43,758	--	Recycled in Sinter Plant
18.	Return Sinter	Sinter Plant	69,500	--	Recycled in Sinter plant
19.	Fly-ash from	CFBC & AFBC	272,450	--	Will be given to nearby Cement plant or Brick manufacturing Unit
20.	Bottom ash	CFBC & AFBC	68,110	--	Will be given to the nearby brick plants, to be used as fuel in the brick kilns due to presence of unburnt carbon
21.	Fe-Mn Slag	Submerged Arc Furnace	174,662	--	Will be used for production of Si-Mn
22.	Fe-Mn Bag Filter Dust	Submerged Arc Furnace	4,463	--	Will be used in Ferro-alloys Sinter Plant Will be recycled back to the process.
23.	Si-Mn Slag	Submerged Arc Furnace	121,421	--	Slag is non-hazardous and will be used for construction of roads or filling of low-lying area
24.	Si-Mn Bag Filter Dust	Submerged Arc Furnace	1,143	--	Will be used in Ferro-alloys Sinter Plant Will be recycled back to the process
25.	Fe-Cr Slag	Submerged Arc Furnace	121,797	--	Slag shall be further processed in grinding and Metal Recovery Plant and shall be used for construction purpose after TCLP test
26.	Fe-Cr. Dust	Submerged Arc Furnace	2,710	--	Will be used in Briquette Plant
27.	Fe-Si. Slag	Submerged Arc Furnace	3,214	--	Ferro Silicon Slag will be used for cement manufacturing/ industries as a raw material & Used for medium carbon silico manganese production purpose

Sl. No.	Type of Waste	Source	Quantity Generated (TPA)	Mode of Treatment	Disposal
28.	Fe-Si-Cr Slag	Submerged Arc Furnace	4,433	--	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.
29.	Pig Iron Slag	Submerged Arc Furnace	107,136	--	Pig Iron Slag will be used for cement manufacturing as a raw material
30.	Briquette Plant Dust	Briquette Plant	15,300	--	Recycled in the plant

26.2.14 Public Consultation:

Details of advertisement given	18.06.2022
Date of public consultation	22.07.2022
Venue	Sampriti Sadan, Sarbari, Neturia, Dist: Purulia, West Bengal
Presiding Officer	Additional District Magistrate, Purulia, West Bengal
Major issues raised	• Employment for the local and physically challenged people, • Prevention of Pollution, • Development of Schools & Roads, • Development of Surrounding Villages and • Sports development

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

Sl. No.	Activities	Activities	Year of Implementation (Budget in INR)			Total Expenditure (Rs. In Crores)
			1st Year	2nd Year	3rd Year	
1.	Development of Schools	**Infrastructure development:** Construction of classrooms, development of playground, providing sports materials, study materials, furniture for class rooms, Construction/renovation of separate toilets for boys & girls **No. of Schools**: 5 **Schools Covered:** Primary Schools of Gopalganj (Madandih),	20,00,000 (Gopalganj (Madandih), Radhamadabpur, Erakusum village)	10,00,000 (Bartoria village)	10,00,000 (Rampur village)	**0.40**

Sl. No.	Activities	Activities	Year of Implementation (Budget in INR)			Total Expenditure (Rs. In Crores)
			1st Year	2nd Year	3rd Year	
		Radhamadabpur, Erakusum village and Junior High Schools of Bartoria & Rampur village				
2.		**All Round Development of Students:** Educational tours for 5th standard students & for 8th standard students **No. of Schools:** 5 **Schools Covered:** Primary Schools of Gopalganj (Madandih), Radhamadabpur, Erakusum village and Junior High Schools of Bartoria & Rampur village	1,00,000 (Gopalganj (Madandih), Radhamadabpur, Erakusum village)	1,00,000 (Bartoria village)	1,00,000 (Rampur village)	**0.03**
3		**Scholarship Distribution:** Scholarship to Two (2) meritorious students, one each, from 5th standard & for 8th standard each from **No. of Recipients:** Total of 4 students from each school **Schools Covered:** Primary Schools of Gopalganj (Madandih), Radhamadabpur, Erakusum village and Junior High Schools of Bartoria & Rampur village	4,00,000 (Gopalganj (Madandih), Radhamadabpur, Erakusum village)	1,25,000 (Bartoria village)	1,25,000 (Rampur village)	**0.065**
4.		**Financial Support for Girl Education:** Free education for Higher Secondary and Graduation (B.A./B.Sc./B. Com.) level (which includes School/College fee, study materials and 02 pairs of school/college uniform up to three years) **No. of Recipients:** Five (5) meritorious girl students from under privileged families & from	3,00,000 (2 girls)	3,00,000 (2 girls)	1,50,000 (1 girl)	**0.075**

Sl. No.	Activities	Activities	Year of Implementation (Budget in INR)			Total Expenditure (Rs. In Crores)
			1st Year	2nd Year	3rd Year	
		nearby Higher Secondary schools				
5.		**Drinking Water Facility:** Water purifier along with cooler **No. of Water Purifier and Water Cooler:** 1 in each school **Schools Covered:** Govt. schools at Gopalganj (Madandih), Radhamadabpur, Erakusum, Parvatpur, Bartoria and Rampur villages	3,00,000 (Gopalganj (Madandih), Radhamadabpur, Erakusum village)	2,00,000 (Parvatpur & Bartoria village)	1,00,000 (Rampur village)	**0.06**
6.	Development of Surrounding Villages	**Renovation of Ponds:** Cleaning of pond & its surrounding, Levelling the base and stabilizing the side slopes by lining, Construction of platform & stairs and Slant/Wharf construction at fourth side of pond for domestic usage and for animals. **No. of Ponds:** 3 **Location of Ponds:** Village Madandih, Bansbani, and Radhamadabpur	5,00,000 (Madandih village)	5,00,000 (Bansbani village)	5,00,000 (Radhamadabpur village)	**0.15**
7.		**Development/ Maintenance of Roads:** Existing roads Kacha/Pucca will be repaired **Location:** Village Madandih and Radhamadabpur	--	20,00,000 (Radhamadabpur village)	25,00,000 (Madandih village)	**0.45**
8.		**Street Lights:** Installation of solar street lights in the villages **No. of Lights:** 20 lights in each village **Villages Covered:** Madandih, Radhamadabpur, Parvatpur, Erakusum,	2,50,000 (Madandih & Bansbani Village)	2,50,000 (Radhamadabpur & Rampur Village)	5,00,000 (Parvatpur, Erakusum and Harmadih villages)	**0.10**

Sl. No.	Activities	Activities	Year of Implementation (Budget in INR)			Total Expenditure (Rs. In Crores)
			1st Year	2nd Year	3rd Year	
		Rampur, Bansbani and Harmadih villages				
9.	Sports Development	Sports activities will be conducted and sports equipment will be provided to local youths to promote the Sports culture	20,00,000	10,00,000	10,00,000	**0.40**
	Total Cost to address the issues raised during the Public Hearing		**58,50,000**	**54,75,000**	**59,75,0000**	**1.73**

26.2.15 Existing capital cost of the project was Rs. 1001Crs. The capital cost of the proposed project is Rs. 320 Crs. and the capital cost for the environmental protection measures is proposed as Rs.27.4356 Crs (including the cost to address the issues raised in Public Hearing). The annual recurring cost towards the environment protection measures is proposed as Rs. 0.7128Crs. The employment generation form the proposed expansion is 1250. The detail of the cost of the environmental protection measures is as follows:

Sl. No.	Environmental Protection Measures	Existing Cost		Proposed Cost	
		Capital Cost Rs. In lakhs	Recurring Cost Rs. In lakhs/year	Capital Cost Rs. In lakhs	Recurring Cost Rs. In lakhs/ year
1.	Air Pollution Measures	3600	36	2336.0	26.0
2.	Water Pollution Control Measures and Rainwater Harvesting	500	20	15.0	4.0
3.	Noise Pollution Control Measures	75	3	50.0	2.0
4.	Storage and Solid Waste Management	80	4	30.0	1.5
5.	Environmental Monitoring Program	55	11	95.0	18.58
6.	Greenbelt Development	48	32	31.06	2.2
7.	Occupational Health and Safety	28	8	13.5	17.0
Sub Total		**4,386**	**114**	**2,570.56**	**71.28**
Total cost to address the issues raised during the Public Hearing		--	--	173.0	--
Total EMP Budget		**4,386**	**114**	**2743.56**	**71.28**

26.2.16 Existing greenbelt has been developed in 23.66Ha which is about 29.17% of the total project area of 81.103Ha with total plantation of 36,000 trees. Proposed greenbelt will be developed in 3.106Ha which is about 3.83% of the total project area. Thus total of 26.766Ha area (33% of total project area) will be developed as greenbelt. Local and Native species will be planted with a tree density of 2500 trees per hectare in proposed project area. Total of 7,765 numbers of trees will be planted and nurtured in 3.106 ha. area in 3 years. Budget of Rs, 31.06 Lakhs and Yearly budget for maintenance of Rs 2.2 Lakhs has been allocated for greenbelt development.

26.2.17 It is reported that there is no violation of EIA Notification 1994 or EIA Notification 2006 or court case/show cause/direction against project.

Certified Compliance report from IRO

26.2.18 The Status of compliance of earlier EC was obtained from Regional Office, Kolkata file no. 102-463/14/EPE/387c dt. 12.09.2022 in the name of M/s Shakambhari Ispat & Power Limited. There were no Non-Compliance detected and no further action is required.

Deliberations by the Committee

26.2.19 The Committee noted the following:

1. The EAC noted that existing greenbelt has been developed in 23.66 Ha which is about 29.17% of the total project area of 81.103 Ha with total plantation of 36,000 trees. The EAC observed that existing project dates back to 2016 and PP has still not completed the greenbelt in 33% of the project area. Also, the green belt density is very less and not as per 2500 trees/ha. PP has failed to comply with the ToR condition and therefore shall provide justification in this regard and prepare a plan for effective implementation of greenbelt development and gap filling in the existing plantation.
2. The Committee deliberated on the baseline data and incremental GLC due to the proposed project and suggested to re-verify the incremental GLC values. PP shall also submit the mitigation measures that will be undertaken to minimise the PM_{10} values.
3. The EAC deliberated on the project cost and EMP cost of the existing and proposed project. The EAC is of the view that EMP cost do not commensurate with the project cost and PP shall revise the EMP cost. PP shall provide the EMP expenditure made with respect to the existing project.
4. The Committee deliberated on the public hearing issues along with 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. Also, the EAC advised to quantify the written and oral representation received during the public hearing. EAC is of the view that the PP has made a vague plan.
5. The PP shall prepare a Village Adoption program consisting of need - based community development activities and submit an undertaking for adoption of villages including the name of villages.
6. The EAC deliberated on the PH issues raised during the earlier EC and is of the view that PP shall submit the status of implementation of the action plan of the commitment made by the PP during the existing ECs in tabular form.
7. PP reported that there is no Schedule-1 Species of Fauna in the Study area. The EAC is of the view that PP shall obtain certificate from the State Forest Department certifying the same.

8. The EAC noted that there is Madandih Village at a distance of 0.05 km from the project site. Also there are other ESA's like school and hospital within the study area. PP shall submit the specific mitigation measures that will be undertaken to minimise the impact of project activities on these ESA's.

9. There is no proper Engineering drawing of a layout. It 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.

10. The proposed project area is observed to be in multiple patches. The EAC is of the opinion that PP/Consultant shall submit the coordinates of project area patch wise.

11. Total land area is 81.103 ha which is under the possession of the company. PP shall submit the status of conversion of land for industrial purpose along with the requisite documents.

12. The EAC noted that the existing project was accorded environmental clearance vide lr no. J-11011/201/2013-IA.II(I) on 21st December, 2016 and the complete project is still not implemented. PP shall submit the justification for the same.

13. In view of above, the PP requested the Committee to allow to reappear with the revised information/ clarification to the points deliberated during appraisal.

Recommendations of the Committee

26.2.20 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** due to certain deficiencies in the proposal and sought requisite information on the points referred at para no. 26.2.19 above. The proposal shall be considered after submission of requisite information and updating the Report on Parivesh Portal.

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Agenda No. 26.3

26.3 5.00 MTPA Iron Ore Processing Plant & 3.0 MTPA Pellet Plant by M/s MSPL Limited, located at Village Somalapura, Sandur Taluk, Bellary District, Karnataka– Re-consideration of Environmental Clearance.

[Proposal No.: IA/KA/IND1/413204/2023; File No. IA-J-11011/329/2021-IAII(IND-1)]
[Consultant: M/s. Mineral Engineering Services; valid upto 15.05.2023 and M/s Ardra Consulting Services Pvt Ltd.]

26.3.1 M/s. MSPL Limited has made an online application vide proposal no. IA/KA/IND1/413204/2023 Dated 12.01.2023 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 proposal was considered during 22nd meeting of the EAC for Industry-I sector held on 30-31st January, 2023 and after detailed deliberations, the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to stipulation of specific conditions, inter-alia, also including that the Environmental Clearance is subject to grant of Forest Clearance of 13.98 ha under the provisions of the FC Act, 1980 for Downhill pipe conveyor from mine to the Unit.

26.3.2 Subsequently, the Ministry received a representation vide MSPL letter dated 20.02.2023 requesting for considering the following amendment in the specific conditions:

S. No. of Specific Condition	**Specific conditions as mentioned in the MoM of 22nd EAC meeting**	**Request for revised/ amended specific condition**
(i)	The environmental clearance is subject to grant of Forest clearance of 13.98 ha under provisions of the FC act 1980 for Downhill pipe conveyor from mine to the unit.	The proponent will undertake the activity of DHPC in 13.98 Ha of forest land only after obtaining the FC for the same. Rest of non-forest area they can undertake the construction activity
(ii)	The total project Land is 124.73 ha which also include 13.98 ha of forest land. PP shall commence project activity only after acquisition of complete land and other necessary permission from the competent authority	The proponent can undertake the project activity only on the land which is in its possession and proponent will not undertake any activity on the land which is not under its possession.

26.3.3 Accordingly, the Ministry vide letter dated 09.03.2023 advised M/s. MSPL Limited that since, MSPL has submitted EIA/EMP report for whole land area and now wish to execute construction work by excluding the Forest land and procurement of iron ore by road only, PP is required to submit a revised application with revised EIA/EMP report, accordingly. Further, a complaint was received in the Ministry by M/s RPCL, Bellari, Karnataka vide letter dated 01.03.2023 against MSPL's claim on the Land Survey No. 136, 137, 118 & 188, 194, 198, 199, 200. which have already been granted to M/s RPCL for setting up a project (EC identification No. EC23A008KA 163015) over the aforesaid Survey nos. Please submit the requisite clarification for the same. In view of the same, the Ministry directed MSPL to submit a revised application with revised EIA/EMP report along with clarification on above said complaint to the Ministry at earliestfor consideration of proposal before EAC.

26.3.4 Accordingly, the project proponent vide letter dated 17.03.2023 revised application with revised EIA/EMP Report excluding the Forest land along with the clarification against the complaint for reconsideration of the proposal before the EAC. The proposal was considered during the 26th meeting of the EAC for Industry-I sector held on 12th, 13th and 17th April, 2023 wherein the

PP/Consultant were unable to present the full proposal due to unpreparedness of the PP/Consultant. PP further vide letter dated 18.04.2023 has accepted the mistake and requested for one more opportunity for presenting the proposal before the EAC meeting.

Recommendations of the Committee

26.3.5 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** and is of the view that the proposal shall be considered once the PP/Consultant are fully prepared and only after receiving the formal request of the project proponent, the proposal shall be placed before the EAC.

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Agenda No. 26.4

26.4 Expansion of Integrated Steel Plant by M/s Shri Bajrang Power & Ispat Limited, located at Village-Borjhara, Urla – Guma Road, Urla Growth Center, Raipur District, Chhattisgarh- Reconsideration of EC proposal under SOP 07.07.2021

[Proposal No. IA/CG/IND/260531/2007; MoEF&CC File No. J-11011/531/2007-IA.II(I)]
[Consultant: Pollution and Ecology Control Services, validity upto 09.05.2023]

26.4.1 M/s. Shri Bajrang Power & Ispat Limited has made an online application vide proposal no. IA/CG/IND/260531/2007 dated 31st March 2023 along with EIA/EMP report, prescribed format (CAF, Form – I Part A, B &C) and certified compliance report seeking Environment Clearance (EC) under the provisions of EIA Notification, 2006. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (Ferrous and Non-ferrous), 2 (a) Coal washeries and 1(d) Thermal Power Plant under Category "A" of the schedule of the EIA Notification, 2006 and attracts general condition as the project is located within 10 kms from the Critically Polluted Area and being appraised at Central Level.

26.4.2 Name of the EIA consultant: M/s. Pollution and Ecology Control Services [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/23/2732; valid upto 09.05.2023, as on April 20, 2023].

Details submitted by the project proponent

26.4.3 The detail of the ToR is furnished as below:

Date of application	Consideration	Details	Date of accord	ToR Validity
31st August 2017	23rd Meeting of EAC (Industry-1) held on 9th -10th October 2017	Terms of Reference	20th October 2017	19.10.2020

Date of application	Consideration	Details	Date of accord	ToR Validity
10th February 2020	16th Meeting of the Re-constituted EAC (Industry-I) held during 24-25th February, 2020	Amendment in Terms of Reference	9th April 2020	19.10.2021

Chronology of Proposal:

- M/s Shri Bajrang Power and Ispat Ltd. had earlier applied for grant of ToR vide proposal no. IA/CG/IND/67789/2017 dated 31.08.2017 for expansion of Integrated Steel Plant (Sponge Iron - 0.21 to 0.264 MTPA; Steel Melting – 0.129 to 0.211 MTPA; Ferro Alloy- 0.0144 to 0.0198 MTPA; Rolling Mill- 0.15 to 0.21 MTPA; New Pellet plant - 0.6 MTPA with coal gasifier from alternative fuel) located at village Borjhara, in Urla Industrial Complex, Raipur, Chhattisgarh. Accordingly, Terms of Reference was issued vide letter no. J-11011/531/2007-IA.II (I) dated 20.10.2017.

- M/s. Shri Bajrang Power & Ispat Limited vide online proposal no. IA/CG/IND/142035/2020 dated 10/02/2020 applied for amendment in ToR dated 20/10/2017 w.r.t. change in configuration and the production capacities and other amendments alongwith validity extension of ToR for another one year. Accordingly, letter was issued by the Ministry vide letter no. J-11011/531/2007-IA.II (I) dated 09.04.2020 with validity of ToR extended upto 19.10.2021 with changes in configuration / production capacities involving expansion of Integrated Steel Plant (Sponge Iron - 0.21 to 0.264 MTPA; Steel Melting – 0.129 to 0.211 MTPA; Ferro Alloy- 0.0144 to 0.0198 MTPA; Rolling Mill- 0.15 to 0.21 MTPA; New Pellet plant - 0.6 MTPA with coal gasifier from alternative fuel), 26 MW Captive Power Plant (WHRB – 18 MW; Biomass – 8 MW, Iron washery plant of 4,00,000 TPA, Titanium slag plant of 36,000 TPA and pig iron plant of 20,000 TPA.

- Thereafter, M/s Shri Bajrang Power and Ispat Ltd. applied for Environment Clearance vide proposal no. IA/CG/IND/193265/2007 dated 09/04/2021 and the proposal was considered during 35th meeting of the Re-constituted EAC (Industry-I) held on 30th April, 2021 wherein the Committee recommended the proposal to be returned in its present form to address the technical shortcomings.
- The project proponent applied vide Proposal No. IA/CG/IND/291775/2022 dated 15.09.2022 for seeking modification in ToR dated 20.10.2017 and subsequent amendment dated 09.04.2020 for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedures dated 07/07/2021 pertaining to consideration of violation cases as PP has reported that the company has installed Iron Ore Washery Plant and had run the plant for 1 month. The raw materials arrived at site and its quality was degrading day by day, so PP run the plan on trial basis for one month just to utilize that material. The PP has now stopped the operation activity. PP is ready to comply all the points of TOR for Violation Project and follow SOP dated 07.07.2021 for identification & handling of Violation cases under EIA notification 2006. The proposal was considered during 14th Meeting of the EAC (Industry-I) held during 29th-30th September, 2022 and after deliberations, the Committee recommended for modification in ToR dated 20.10.2017 and subsequent amendment dated 09.04.2020 w.r.t. appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedures

Date of application	Consideration	Details	Date of accord	ToR Validity
dated 07/07/2021 pertaining to consideration of violation cases with stipulation of the additional specific conditions.				

26.4.4 The project of M/s. Shri Bajrang Power & Ispat Limited located in Village-Borjhara, Urla – Guma Road, Urla Growth Center, Raipur District, Chhattisgarh is for expansion of Integrated Steel Plant.

26.4.5 Environmental site settings

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>i.</td><td>Total land</td><td>31.8 ha [12.465 ha allotment is done by Chhattisgarh State Industrial Development Corporation (CSIDCL) and the balance 19.335 ha area is Private Purchased diverted for Industrial use.]</td><td>Land use: industrial</td></tr>
<tr><td>ii.</td><td>Land acquisition details as per MoEF&CC O.M. dated 7/10/2014</td><td>100% land is in possession of the company</td><td></td></tr>
<tr><td>iii.</td><td>Existence of habitation & involvement of R&R, if any.</td><td><u>Project site:</u> Nil
<u>Study Area:</u>
<table><tr><th>Habitation</th><th>Distance</th><th>Direction</th></tr><tr><td>Urla</td><td>1.0 km</td><td>East</td></tr></table></td><td>No R&R involved.</td></tr>
<tr><td>iv.</td><td>Latitude and Longitude of <u>all corners</u> of the project site.</td><td><table><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>21°18'45.30"N</td><td>81°35'31.31"E</td></tr><tr><td>B</td><td>21°18'46.33"N</td><td>81°35'43.16"E</td></tr><tr><td>C</td><td>21°18'25.73"N</td><td>81°35'39.89"E</td></tr><tr><td>D</td><td>21°18'23.00"N</td><td>81°35'26.13"E</td></tr><tr><td>E</td><td>21°18'37.57"N</td><td>81°35'11.86"E</td></tr><tr><td>F</td><td>21°18'38.41"N</td><td>81°35'20.64"E</td></tr></table></td><td>-</td></tr>
<tr><td>v.</td><td>Elevation of the project site</td><td>277 m above msl</td><td></td></tr>
<tr><td>vi.</td><td>Involvement of Forest land if any.</td><td>No involvement of Forest Land</td><td></td></tr>
<tr><td>vii.</td><td>Water body exists within the project site as well as study area</td><td><u>Project site: None</u>
<u>Study area</u>
<table><tr><th>Water body</th><th>Distance</th><th>Direction</th></tr><tr><td>Kharun River</td><td>2.5 km</td><td>NNW</td></tr><tr><td>Distributary Nallah</td><td>Adjacent</td><td>W</td></tr></table></td><td>-</td></tr>
<tr><td>viii.</td><td>Existence of ESZ/ESA/national park/wildlife sanctuary/biosphere reserve/tiger</td><td>Nil.

Movement of Elephants is observed within 15 Kms. radius of the plant.</td><td></td></tr>
</table>

	reserve/elephant reserve etc. if any within the study area		

26.4.6 The existing project was accorded environmental clearance vide lr.no. J-11011/531/2007-IA.II (I) dated 17-01-2008 & J-11015/159/2009-IA.II (M) dated 28.1.2010 & J-11015/159/2009- IA.II (M) dated 26.8.2013. Latest Renewal to Consent to Operate for the existing unit was accorded by Chhattisgarh Environment Conservation Board vide lr. No. 4657/TS/CECB/2022 dated 7/10/2022 for Steel Melting Shop 1.2960 MTPA. The validity of CTO is up to 31.08.2023. Latest Renewal of Consent to Operate (for Both Air & Water) is granted vide letter no. 8545/TS/CECB/2023 dated 07.03.2023 for SID (0.21 MTPA) and WHRB based Power Plant (18 MW) valid up to 31.03.2024. Latest Renewal of Consent to operate (for both air & water) is granted vide letter No. 1041/TS/CECB/2022 dated 04.06.2021 for Ferro alloys 14,400 MTPA and Biomass based Power Plant 8 MW valid from 31.05.2022 to 30.05.2023. Latest Renewal of Consent to Operate (for air and water) is granted vide letter No. 6991/TS/CECB/2023 dated 03.01.2023 for Coal washery 0.6 MTPA and Hot Re-rolling Mill Plant 0.12 MTPA valid from 01.01.2022 to 31.12.2023.

Chronology of Statutory Clearances

Unit	Establishment Year	Statutory Clearances obtained	Remarks
2x350 TPD Sponge Iron Plants with 18 MW WHRB Power Plant	2005	Consent for Establishment from Chhattisgarh State pollution Control Board	-
6 x 8 MT Induction Furnace with Co Casting machine Note: CTE for change in configuration from 6x 8 T to 3x 15 T has been granted by CECB	2006	Establishment done in year 2006 From Chhattisgarh State pollution Control Board	-
	2018	Amendment in CTE was obtained for change in configuration to 3 X 15 MT from Chhattisgarh State pollution Control Board	-
2x 4 MVA Ferro Alloys plant	2008	Environmental Clearance from MoEF&CC vide letter no. J-11011/531/2007-IA.II (I) dated 17-01-2008	-
Captive Power Plant (8 MW biomass based)	2008		
0.6 MTPA Coal Washery	2012	J-11015/159/2009-IA.II (M) dated 28.1.2010	EC granted for 0.6 MTPA
0.15 MTPA Rolling Mill	2012	J-11015/159/2009- IA.II (M) dated 26.8.2013	EC granted for 0.15 MTPA
RENEWAL OF CONSENT TO OPERATE			
Ferro alloys and Biomass based Power Plant	2021	No. 1041/TS/CECB/2022 dated 04.06.2021	valid up to 30.05.2023
Steel Melting Shop	2022	letter No. 4657/TS/CECB/2022 dated 7/10/2022	valid upto 31/08/2023
Coal washery 0.6 MTPA and Hot Re-rolling Mill Plant 0.12 MTPA	2023	No. 6991/TS/CECB/2023 dated 03.01.2023	valid up to 31.12.2023

Unit	Establishment Year	Statutory Clearances obtained	Remarks
Sponge Iron and Waste Heat Recovery Based Power Plant	2023	letter No. 8545/TS/CECB/2023 dated 07.03.2023	valid upto 31/03/2024
Fly ash bricks	2015	Letter No. /TS/CECB/2015 of Air and /TS/CECB/2015 of water dated 28/04/2015	Valid up to 30/09/2019 CTO was not renewed; this is categorized as " white category". Hence CTO is not applicable after 2019

26.4.7 Implementation status as per existing EC:

Sr. No.	Facilities	Units	As per EC dated 17.01.2008, 28.1.2010 & 26.8.2013	Implementation status	Production as per CTO
As per EC dated 17.01.2008, 28.1.2010 & 26.8.2013					
1.	Biomass Based Captive Power Plant, MW	MW	8	Installed & in operation	8
2.	Ferro Alloy Plant	TPA	14,400	Installed & in operation	14,400
3.	Rolling Mill	TPA	1,50,000	Installed & in operation	1,20,000
4.	Coal Washery	TPA	12,00,000	Installed & in operation	6,00,000
As per CTO dated 1.03.2007 & 1.04.2005					
1.	SMS	TPA	1,29,600	Installed & in operation	1,29,600
2.	Sponge Iron Plant	TPA	2,10,000	Installed & in operation	2,10,000

26.4.8 The unit configuration and capacity of existing and proposed unit are given as below:

S. No.	Plant Equipment/ Facility	Existing facilities as per EC dated 17.01.2008, 28.1.2010 & 26.8.2013								Proposed Units		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Unimplemented (B)		As per CTO						
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	
1.	Sponge Iron Pant	-	-	-	-	-		2x350 TPD	2,10,000 TPA	-	NIL	2x350 TPD	2,10,000 TPA	Expansion of capacity of SID has been dropped as per the orders dated 16.03.2007, 12.12.2007 and 15.05.2012 of Industry & Commerce Dept. Government of Chhattisgarh
2.	Captive Power Plant, MW	8 MW Biomass & Dolachar based CPP	8MW	8 MW Biomass & Dolachar based CPP	8MW	None	-	18 WHRB + 8 MW Biomass & Dolachar based CPP	26 MW	-	-	18 WHRB + 8 MW Biomass & Dolachar based CPP	26 MW 18 WHRB + 8 MW Biomass & Dolachar based CPP	Increase in coal quantity is dropped in SID unit as per above mentioned orders.
3.	Steel Melting Shop(SMS)					-	-	6 x 8T	1,29,600 TPA	2 x 15T	81,600 TPA	5 x 15T	2,11,200 TPA	Replacement of 6x8T to 3x15T CTE granted
4.	Ferro Alloy Plant	2 x 4MVA	14,400 TPA	2 x 4MVA	14,400 TPA	-	-	2 x 4MVA	14,400 TPA	1 x 5MVA & 1 x 6 MVA)	5400 TPA	1 x 5MVA & 1 x 6 MVA)	19,800 TPA	Replacement of old
5.	Rolling Mill	-	1,50,000 TPA	-	1,20,000 TPA	-	3,00,000 TPA	-	1,20,000 TPA	-	60,000 TPA	-	2,10,000 TPA	-
6.	Coal Washery	-	12,00,000 TPA	-	6,00,000 TPA	-	6,00,000 TPA	-	6,00,000 TPA		NIL	-	6,00,000 TPA	-
7.	Pellet plant with coal gasifier	-	-	-	-	-	-	-	-	-	6,00,000 TPA	-	6,00,000 TPA	-
8.	Iron Ore Washery Plant	-	-	-	-	-	-	-	-	-	4,00,000 TPA	-	4,00,000 TPA	-
9.	Titanium Slag Plant & Pig Iron Plant	-	-	-	-	-	-	-	-	-	36,000 TPA 20,000 TPA	-	36,000 TPA 20,000 TPA	-

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

S. N.	Raw Material	Existing Quantity (TPA)	Quantity (TPA) As per TOR Dated 20th October 2017	Quantity (TPA) after Dropping of some units & Requested Amendment	Storage Quantity	Type of storage	Source	Distance km	Mode of Transportation
1.	Iron Ore	315000	396000	315000	24,000	Open Yard	Mines-Hahaladdi, NMDC, Bailadila	190 420	**Road**
2.	Coal	260440	302880+ 12600	260440	24000	Open Yard & closed Shed	SECL, Imported	250	
3.	Dolomite	9840	12540	10380	1000	Open Yard	Mines-Mandla, Katni		
4.	Rice Husk	125004	28200	125004	2350	Open Yard	Local Rice Mill	50	
5.	Dolochar	66000	26100	66000	1500	Open Yard	Own plant	-	
6.	Sponge Iron	132170	215388	215388		Closed shed	Own Plant		
7.	Pig Iron	5388	8784	8784	800	closed Shed	External procurement will not be there 20,000 TPA will be produced of which 8784 TPA will be consumed and balance will be disposed as product	-	
8.	Scrap	13608	22176	22176		Covered Shed			
9.	Ferro & Non Ferro Alloys	1357	2112	2112		Covered Shed			
10.	Manganese Ore	25920	35640	35640	2700	Open Yard	Mines-Garividi, MOIL-Balaghat	512 218	

S. N.	Raw Material	Existing Quantity (TPA)	Quantity (TPA) As per TOR Dated 20th October 2017	Quantity (TPA) after Dropping of some units & Requested Amendment	Storage Quantity	Type of storage	Source	Distance km	Mode of Transportation
	(Difference from tor due to FeMn)								
11.	Ferro Manganese Slag	14400	19800	19800	1500	Open yard	Own Plant		
12.	Coke Ferro	2880	3960	3960		Open Yard			
13.	Coke Pellet	-	21000	21000	2000	In covered Shed	Nagpur & Jharkhand	290 644	
14.	Iron OreFine/ Concentrate	0	612000	612000	37090	Open Yard	Mines-Hahaladdi, Orissa Own Plant at Tilda	190 600 30	
15	Limestone	0	9000	9000	300	Open yard	Katni	450	
16	Bentonite	0	4800	4800	0.5	Open Yard	Bhuj and local market	1450	
17	Coal for Gasifier	-	27000	27000	2000	Open Yard & closed Shed	SECL, Imported	250	
18	Ilmenite	-	72,900	72,900	3500	Open yard	IREL & Other Suppliers	600	
19	Graphite	-	900	900	225	closed Shed	Imported / Indigenous	500	
20.	Coke Titanium Slag	-	12600	12600	3000	In covered Shed	Nagpur & Jharkhand	290 644	

26.4.10 The existing Water requirement is 2442 m^3/day, water requirement is obtained from Kharun River and permission for the same has been obtained from water resource department Chhattisgarh vide letter no. 302 dated 6.10.2004. The water requirement for the proposed project is estimated as 1065 m^3 /day, will be met from Kharun River.

26.4.11 The total power requirement after expansion will be 55.7 MW. Power will be obtained from captive power plant & the additional power requirement after expansion shall be met by wheeling of power from other unit and/or from state electricity board.

26.4.12 Baseline Environmental Studies

<table>
<tr><th>Particulars</th><th>Parameters</th></tr>
<tr><td>AAQ parameters at 8 Locations (min and max)</td><td>• PM_{10} : 43.5 to 88 µg/m^3
• $PM_{2.5}$: 17.9 to 38.5 µg/m^3
• $SO_{2.}$: 10.5 to 16.3 µg/m^3
• NO_x : 11.3 to 30.8 µg/m^3</td></tr>
<tr><td>Incremental GLC level</td><td>• PM_{10} = 2.48 µg/m^3 (Level at 600 m in NE Direction)
• SO_2 = 4.28 µg/m^3 (Level at 1 km in NE Direction)
• NOx = 2.49 µg/m^3 (Level at 850 m in NE Direction)</td></tr>
<tr><td>Ground water quality at 7 locations</td><td>pH: 7.14 to 7.33, Total Hardness: 146.0 to 196.0 mg/l,
Chlorides: 18.9 to 56.9 mg/l, Fluoride: 0.08 to 1.26 mg/l. Heavy metals: BDL</td></tr>
<tr><td>Surface water quality at 8 locations</td><td>pH: 6.55 to 7.51; DO: 3.8 to 5.2 mg/l and BOD: <3 to 4.2 mg/l. COD from 8 to 34 mg/l</td></tr>
<tr><td>Noise levels Leq (Day and Night)</td><td>30 to 72 dBA for the day time and 30 to 68 dBA for the Night time.</td></tr>
<tr><td>Traffic assessment study findings</td><td>• Traffic study has been conducted at Bendri-Birgaon Road which is approximately 1.0 km from the plant site.
• Transportation of raw material, fuel & finished product will be by road.
• Existing PCU is 1794.5 PCU/day on Bendri-Birgaon Road road and existing level of service (LOS) is:
<table>
<tr><th>Road</th><th>V (Volume in PCU/day.)</th><th>C (Capacity in PCU/day.)</th><th>Proposed V/C Ratio</th><th>LOS</th></tr>
<tr><td>Bendri-Birgaon Road</td><td>1794.5</td><td>10000</td><td>0.17</td><td>A-Very Good</td></tr>
</table>
* Note: Capacity as per IRC-73:1980 Guide line for capacity for roads.
Conclusion: The level of service will Very Good after including additional traffic due to proposed project</td></tr>
<tr><td>Flora and fauna</td><td>No schedule I animals are found in the study area.</td></tr>
</table>

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

Source and type of solid waste	Qty. T/Year Existing	Qty.T/Year (Total Capacity after expansion)	Utilization /disposal method
Fly ash (Power Plant)	58680	No change	Bricks manufacturing unit & Cement Plant
Fly ash (SID)	69300	No change	
Slag from SMS unit	17000	25344	Slag from SMS is being/will be sold to brick manufacturers in open market/Used in making man made sand

Source and type of solid waste		Qty. T/Year Existing	Qty.T/Year (Total Capacity after expansion)	Utilization /disposal method
Slag from Ferro Alloys unit		17280	23760	Backfilling of low-lying area/land leveling
Dolochar from SID		66000	No Change	Used in our AFBC based power plant (Gondwara unit) as a Raw material.
Rejects From Coal Washery		2,40,000	No Change	Used in our AFBC based power plant (Gondwara unit) as a Raw material..
Coal Gasifier	Coal ash	-	7920	Will be send to bricks manufacturing unit.
	Tar	-	1320	Will be Used in pellet plant
Iron Ore Washery Plant - Reject (Fines)		-	40,000	No tailing pond for handling of slimes is proposed. The slimes will be dewatered in the thickener and thickened tailings sludge will be dewatered in proposed filter press. The overflow from the thickener will be collected into a process water tank and will be reused as fresh water. Slimes will be given to cement plants,
Titanium Slag Plant capacity &Pig Iron Plant		Zero Solid Waste Generation Plant.		Note: The detail of sources from where solid waste and Hazardous Waste is being generated / anticipated are described as here under: The major Solid wastes generated from Smelting Furnace in the plant will be flue dust (@ 25 kg/ t of Titanium Slag). The flue dust will be recycled back to the furnace after being collected from Dust Collector Bag Filter house and fully reutilized. The maximum generation of flue dust for the proposed project will be 1000 TPA. Similarly the maximum production of Titanium Slag will be 36000 TPA, and Pig Iron will be 20000TPA. The Titanium Slag though produced in the form of slag is a marketable product. Hence, both Pig Iron and Titanium Slag would be sold out. The flue dust which is another solid waste generated in the process will be fully reutilized. Hence, no solid waste disposal is envisaged.

26.4.14 Public Consultation:

Details of advertisement given	20.11.2020

Date of public consultation	21.12.2020
Venue	Saamudayik Building,Gram Panchayat Naya Bendri
Presiding Officer	Additional Collector Raipur
Major issues raised	Employment to locals, To develop local school as Smart School, To provide Vocational Training Institute and To Develop a public garden.

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

(A) SOCIO-ECONOMIC DEVELOPMENT TO ADDRESS PH ISSUES

S.No	Physical Activity		Year 2022-23	Year 2023-24	Year 2024-25	Year 2025-26
			Capital Cost in Rs Lakhs			
1	Development of local Primary school as Smart School in village Bendri	Providing Computers – 4 nos	-	0.5	0.5	0.5
		Computer Table/Chairs – 8 nos	-	0.5	0.5	0.5
		Rooms Renovation -5 rooms	-	1.5	1.0	0.5
		Furniture for the school – 80 sets of table and chairs	-	1.5	1.0	0.5
		Stationary , White Boards etc.	-	0.5	0.3	0.2
		Rain Water Harvesting System 2 Nos.	-	0.5	-	-
		Toilets with running water facility	-	0.5	-	-
		Sports Equipment's	-	0.5	-	-
		Drinking water facility (RO system)	-	0.5	-	-
	Total (A)		**-**	**6.5**	**3.3**	**2.2**
2	Vocational Training Institute (two batches (20/batch) in a year in three fields to benefit 120 persons in a year	Construction of building – 8 rooms & Other Infrastructure	-	20.0	20.0	20.0
		Providing the furniture – 100 sets of Tables and Chairs	-	2.0	2.0	1.0
		Other training equipment – Tool Kits for mechanical, electrical and automobile	-	5.0	5.0	5.0
		Heavy machineries – Simulators for mechanical, electrical and automobile training	-	6.0	5.0	3.0
		Maintenance & Recurring Expenses (Teachers & Supporting Staff Salary)		5.0	5.0	5.0
	Total (B)		-	**38.0**	**37.0**	**34.0**
3	Development of Garden in Dharsinwa area (Approx usage of Garden by	Land escaping of the place	8.0	-	-	-
		Tree plantation & Gardner Expenses	8.0	1.0	1.0	1.0
		Providing Lighting around	1.5	-	-	-
		Fountain	0.5	-	-	-
		Pathway Construction	2.5	-	-	-
		Fencing	3.0	-	-	-
		Borewell with Pipe Line & Overhead tank	2.0	-	-	-
		Electricity & water facilities	1.0	0.5	0.5	0.5

S.No	Physical Activity		Year 2022-23	Year 2023-24	Year 2024-25	Year 2025-26
			Capital Cost in Rs Lakhs			
	300 persons)	Security Service	1.0	1.0	1.0	1.0
	Total (C)		**27.5**	**2.5**	**2.5**	**2.5**
	Sub Total (A+B+C)		**156**			

(B) BUDGET ALLOCATION AS PER THE NEED BASED ASSESSMENT

S. No	Activities Identified	2020-21	2021-22	2022-23
		Capital Cost (Rs. In lakhs)		
1	Building Material Construction Work at Samudahik Bhawan & School	25.5	-	-
2	Borewell at Bendri Middle School	1.0	-	-
3	Kopal Vani School Civil Work-Development of Government school to Model School at Nardha	2.25	-	-
4	Construction contractor charges for Vihan Cafeteria	9.8	-	-
5	Ambulance Purchase For Villages Borjhara, Bendri, Guma, Tendua & Urla	25	-	-
6	Fire Brigade for Villages -Borjhara/Bendri/Guma/Tendua/Urla	50	-	-
7	Water Purifier for Bendri Middle School	0.5	-	-
8	Borewells Csr Work for Drilling, Gi Casing Work Gram Panchayat Bendri	0.83	-	-
9	Computer system donation at village Bendri Panchay Bhavan	-	0.35	-
10	Proposed Rennovation & Beautification of Muktidham at Village - Bendri (Pathway Construction, Drinking Water facality, Sitting Arrangements, Toilet with running water, Boundary wall reparing, Plantation and Painting).	-	3.5	-
11	Proposed Rennovation & Beautification of Muktidham at Birgao - Raipur (Pathway Construction, Drinking Water facality, Sitting Arrangements, Toilet with running water, Boundary wall reparing, Plantation and Painting).	-	3.5	-
12	Proposed Construction of Jyoti Bhavan for Mahamaya Mandir at village - Bendri -	-	8.00	-
13	Augmentation of facilities at Vihan Cafeteria	-	3.00	-
14	Plantation at Birgao Muktidham	-	-	0.4
15	Plantation at Kabrisatan Birgao	-	-	0.5
16	Drinking water facilities in nearby villages (Nal Jal Yojna)	-	2.00	-
17	Nala Cleaning and deepening work at village Borjhara for water conservation	3.0	-	-
18	Plantation work (harihar Chhattisgarh Scheme)	2.0	2.0	2.0
19	Distribution of furniture to “Shahid nand Kumar Patel (Naveen Govt. College) Birgaon,Raipur (C.G.)	-	-	20.0
20	Development and beautification Govt. Primary School , Vill. Pacheda	-	-	16.5
21	Development and beautification Govt. Primary School , Vill. Rasout	-	-	16.5
22	Borwell at Narmedswar Mandir at village Bendri Urla Raipur	-	-	0.5
23	Dharamshala Developmnent at Danteswari Mata Temple- Jagdalpur	-	-	8.0

S. No	Activities Identified	2020-21	2021-22	2022-23
		Capital Cost (Rs. In lakhs)		
24	Solar Street Light In Bendri Village	-	-	3.0
25	Development and beautification Govt. Primary & Middle School , at Kawardha	-	-	20.0
	Total	**119.88**	**22.35**	**84.4**
	Sub Total (D)	**226.63**		
	Grand Total (A+B+C+D)	**382.63**		

26.4.15 The existing capital cost of project was 350 Crore. The capital cost of the proposed project is Rs. 186 Crores and the capital cost for environmental protection measures is proposed as Rs. 12.92 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 61.75 Lakhs. The total employment generation from the project is 200 nos. of people. The details of cost for environmental protection measures is as follows:

S. NO.	ACTIVITIES	Rs. In lacs Capital Cost	Rs. In Lacs Recurring Cost
1	Air Pollution Control measures ESPs, Bag Filters, dust extraction systems, stack etc.	500	10
2	Fugitive dust control measures – Vacuum Cleaner and dust suppression system in the form of water sprinklers, Sufficient no. of movable as well as fixed water sprinklers	64	2
3	Wastewater Management and Effluent Treatment Plant	190	8
4	Sewage Treatment Plant	50	2
5	Environmental Monitoring Program and Occupational Health Survey	200	23.75
6	Solid Waste Management	200	5
7	Noise Control Measures	10	1
8	Greenbelt Development in Plant	28	7
9	Greenbelt development at Urla-Bendri-Guma Road in 2.5 ha		
10	Rain Water Harvesting	50	3
	TOTAL	**1292**	**61.75**

26.4.16 Existing green belt has been developed in 10.49 ha. area which is about 33% of the total project area of 31.8 ha., 29000 nos. of trees are planted 27000nos. survived till date. Proposed greenbelt will be developed in 2.5 ha which is about 7.8% of the total project area. Thus total of 12.99 ha. area (40.8% of total project area) will be developed as greenbelt. A 10 m wide greenbelt, consisting of 2-3 tiers around plant boundary has been developed as greenbelt as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species are planted with a density of 2500 trees per hectare.

26.4.17 It is submitted that there was a Show Cause from Chhattisgarh Environment Conservation Board dated 1st February 2023 which was revoked on 23rd February 2023.

The company had installed the unit of Iron Ore Washery Plant without EC/CTE/CTO and had run the plant for 1 month, so the proposal was applied for Amendment in ToR under violation.

The PP has now stopped the operation activity. SBPIL is ready to comply all the points of TOR for Violation Project and follow SOP dated 07.07.2021 for identification & handling of Violation cases under EIA notification 2006. The proposal was considered in 14th meeting of the EAC for Industry-I sector held on 29-30th September, 2022 and recommended for amendment in ToR dated 20.10.2017 and subsequent amendment dated 09.04.2020 w.r.t. appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedures dated 07/07/2021 pertaining to consideration of violation cases. The damage analysis report comprising of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation. is as follows:

Total Damage and Remediation Cost for Construction Activities and Trial Run Carried Out Under Violation

Sr. No.	Environmental Component	Total Damage Cost (Rs.)	Total Remediation Plan Cost (Rs.)
1	Air Environment	PP has installed and utilized 30 No. of water sprinklers covering working area for construction of Iron Ore Washing Plant. In addition to this one mobile water tanker is also used for dust suppression during construction period. Hence no damage on air environment is considered. Damage Cost During Operation Phase=23.88Lakh	Rs. 1,06,000/- for sprinklers and baricates Rs. 28,00,000/ for Green Belt in and around the plant
2	Noise Environment	Non-availability of PPEs Damage cost = Rs. 50,000/-	Rs. 50,000/-
3	Water Environment	Rs. 1088718/- for water consumed during construction and operation phase	Rs. 290 lakhs, provisions made in EMP (240 lakhs) for STP/ETP and rainwater harvesting (50 lakhs +Rs.15000/-
4	Land Environment	Rs. 2520/-	Rs. 30,000/-
5	Solid & Hazardous waste	Rs. 17800/-	Rs. 70,000/-
6	Biological Environment	Deficiate plantation and greenbelt in and around the plant (800 trees) Rs. 4,00,000/-	Rs. 28,00,000 (28.0 lakhs) for plantation and green belt in and around the plant (provision in EMP)
7	Socio-economic Environment (occupational health)	25,000/-	Rs. 35,000/-
8	Energy Consumption	Rs. 1,53,000/-	Rs. 2,50,000/- solar system
	Total	Rs. 41.25 lakhs.	Rs. 556000 +318 lakhs (provision for STP, ETP,

Sr. No.	Environmental Component	Total Damage Cost (Rs.)	Total Remediation Plan Cost (Rs.)
			RWH and plantation and greenbelt in and around plant site (290+28=318 lakhs)

Summary of Remediation Plan, Natural Resource and Community Augmentation Plan

Sr. No.	Activity Proposed	Total (Rs.)
1.	Cost of damage / Remediation plan	5,56,000 (excluding provisions of EMP cost of Rs. 318 lakhs) for STP, ETP, RWH and deficiate plantation in and around plant site
2.	Natural Resource Augmentation Plan	Rs. 19,25,000/-
3.	Community Augmentation Plan	Rs. 37,00,000/-
	Sub Total (A)	**Rs. 61,81,000/-**

Details of Penalty to be paid as per SOP of Office Memorandum No. F.No. 22-21/2020-IA-III dated July 7, 2021 regarding the subject matter of "Standard Operating Procedure (SOP) per identification and handling of violation cases under EIA Notification 2006 in compliance to order of Hon'ble National Green Tribunal in O.A. No. 34/2020 WZ-Regarding, Penalty Provisions for violation cases

S.N.	Description	Amount
1.	1% of total amount invested in construction of Iron Ore Washing Plant. Total amount invested: Rs. 2,64,16,273 1 % of 2,64,16,273	Rs. 2,64,162.73
2	0.25% of total turn over The plant was operated on trial bases for 1 month only. Total Iron ore washed for 5000 T. Cost of washed Iron Ore: Rs. 6000/T. Total Turn over: Rs. 3,00,00,000 0.25% of Rs. 3,00,00,000	Rs. 75,000
	Sub Total (B)	**Rs. 3,39,162.73**
	Grand Total (A+B)	**Rs. 65,20,163**

Certified Compliance Report from Regional Office

26.4.18 The Status of compliance of earlier EC was re-obtained from Regional Office vide letter no. EC-635/RON/2017-NGP/-1056 & 5-23/2008(ENV)/-1057, dated 23.11.2022 in the name of M/s. Shri Bajrang Power & Ispat Limited.

Latest status for certified compliance Report to letter No. EC-635/RON/2017-NGP/1056 dated 23.11.2022

(A) ATR Coal Washery & Rolling Mill

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and visit dated 14-11-2022.	Status as on April, 2023
i.	All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created Within the Unit.	**Partially Complied with Respect to site visit.** It was observed that all the internal roads are RCC and mechanical sweeping machine are deployed for cleaning the roads. In addition to that water sprinkling system also provided. **However, on the day of monitoring it has been observed that coal dust accumulated on the some of the internal roads and the same was observed on the garland drains also. PA has been asked to properly maintain the internal roads and garland drains on regular time intervals for good housekeeping practices. (Specific condition – v).**	**Regarding accumulation of coal dust on some internal roads and garland drains,** we would like to inform you, that apart from road cleaning by Mechanical sweeping machine, we are doing manual cleaning of roads. In this process, after manually roads cleaning, collected road dust is being stored on corner of the roads, and then it is being collected in manually operated hand trolley for safe disposed off. On your visit day also this process was operational. Now to avoid this condition, we are increasing no. of hand trollies and instructed to cleaning team for its simultaneous collection also and not to leave on road corner. This system is started and we are maintaining it. Photographs of same are enclosed as annexure 1.	**On the day of monitoring it was observed that all the internal roads were cleaned and dust sweeping machine was deployed or the same.**	**All the internal roads are being . regularly cleaned by dust sweeping machine. Good housekeeping practices are being adopted.** Garland drains are cleaned on regular interval by housekeeping team. Strength of house keeping staff will be increased by appointing at least 15 workers, out of which 90% will be women from local area. All efforts will be taken to improve the House keeping further.
ii.	Ash and Heavy metal content in raw coal, and washed coal shall be analysed twice In a year and records maintained thereof.	**No information has been provided.** On the day of visit coal washery was not found operational and it was informed that coal washery was not operational since 01.04.2019. PA has been asked to submit Ash and Heavy metal content in raw Coal, and washed coal	**Regarding submission of analysis report of Ash and Heavy metal content in raw Coal and washed coal,** we are submitting the analysis report of Ash and Heavy metal content in raw Coal and washed coal, analyzed by outside authorized agency.	**PP has submitted the coal analysis report to this office.**	**Regarding submission of analysis report of Ash and Heavy metal content in raw Coal and washed coal,** we are submitting the analysis report of Ash and Heavy metal content in raw Coal and washed coal, analyzed by outside authorized agency.

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and visit dated 14-11-2022.	Status as on April, 2023
		reports prior to the 01.04.2019 to this office. (Specific condition- xvi).	Copy of the report is enclosed. Annexure 2.		
iii.	Proper housekeeping shall be ensures and all the raw materials including sludge and oily waste shall be stored separately in designated place only. Scrap shall be recycled into the subsequent batches of melting. All the other solid wastes including mill scale shall be properly utilized or disposed off In an environmentally friendly manner. Waste oil and oil sludge shall be dispose doff to registered recyclers / reprocesses only.	**Partially Complied with respect to site visit.** It was observed that most of the Raw materials and generated waste materials are being stored are kept separately in their designated places. It was informed that Scrap is being recycled. Other generated solid wastes are being properly utilized or disposed of in an environment friendly manner. Mill scale is being used in Ferro Alloys as raw material. Waste Oil is being used for lubrication and Oil sludge is disposed off to registered recyclers/ re-processor. **However, on the day of monitoring it has been observed that coal dust was accumulated on the some of the internal roads and the same was observed on the garland drains also. PA has been asked to properly maintain the internal roads and garland drains on regular time intervals for good housekeeping practices.** **It was also observed that Char dust was stored inside at back side of the plant**	**Regarding accumulation of coal dust on some internal roads and garland drains,** we would like to inform you, that apart from road cleaning by Mechanical sweeping machine, we are doing manual cleaning of roads. In this process, after manually roads cleaning, collected road dust is being stored on corner of the roads, and then it is being collected in manually operated hand trolley for safe disposed off. On your visit day also this process was operational. Now to avoid this condition, we are increasing no. of hand trollies and instructed to cleaning team for its simultaneous collection and not to leave on road corner. This system is started and we are maintaining it. Photographs of same are enclosed as annexure 1. **Regarding Char accumulation observed at back side of the plant area,** we would like to inform you, our char generation is about 200T/Day, which is being stored at covered shed area at RM Yard and being used in our 8 MW Bio Mass based power	On the day of monitoring it was observed that all the internal roads were cleaned and dust sweeping machine was deployed or the same. It was also observed that most of char dust was removed from back side of the plant and it was informed that the same is being used as raw material in their power plant. PP has also submitted the copy of letter and copy of e-mail communication intimating to RO, CECB regarding shut down of 16 MW in the month of July & August, 2022.	All the internal roads are regularly cleaned by dust sweeping machine. Good housekeeping practices are being adopted. Garland drains are cleaned on regular interval by housekeeping team. Dolochar is being consumed on regular basis in captive 8 MW bio-mass power plant and 16 MW coal-based power plant of sister concern. No stock of dolochar is accumulated in site plant premises.

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and visit dated 14-11-2022.	Status as on April, 2023
		premises. PA has been asked to submit the reasons for dumping the char inside the plant premises and ATR shall be submitted for its utilization and its proper disposal to this office. (Specific condition - xix)	plant at Borjhara unit and 16 MW AFBC power plant in Gondwara unit as a raw material. During the month of July-August'22, there was 25 day shutdown in our both 16 MW AFBC power plant and 8 MW Biomass based power plant. Intimation of the same is given to respected state pollution control board.(Copies Enclosed as annexure 3).Hence, resulting accumulation of huge amount of char. However these accumulated char is our raw material for both plant and we are using that by blending it with our fresh generated char and being consumed now.		
iv.	No Change in Technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	**On the day of visit it was observed that an iron ore crushing and wet screening unit was found in operational (Fig. 4, 5 and 6). (General condition – i.)**	Regarding operation of Iron Ore crushing & wet screening unit, we would like to inform you that in view of conservation of natural resources i.e. Iron Ore, under our R&D procedures, through a temporary installed wet screen, However it could not be successful trial, Now we have applied for amendment in TOR under EC violation as per MOEF&CC notification SOP dated 07.07.2021 for identification & handling of violation cases under EIA notification 2006 for installation of Iron Ore washery unit.	PP has applied for amendment in TOR (in violation category of integrated steel plant at Borjhara village, Urla-Guma Road, Urla Growth Centre, Raipur, Chhattisgarh vide letter No.SBPIL/ENV/2022-23/1020 dated 13.09.2022(Annexure-I). PP submitted the approved minutes of the 14th EAC (Industry Sector-I) meeting held on September 29-30, 2022 wherein it was observed that the committee recommended for modification in TOR dated 20.10.2017 and subsequent amendment dated 09.04.2020 wrt appraisal of proposal under violation category as per the provisions contained in the MoEF&CC SOP dated 07.07.2021 pertaining to consideration of violation cases (Annexure-2).	Amendment in TOR is applied and appraised by EAC in 14th EAC meeting held on 29-30 Sept. 2022 and minutes of the same is uploaded in Parivesh Portal on 07.10.2022. Credible action by CECB Chhattisgarh has been taken.

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and visit dated 14-11-2022.	Status as on April, 2023
				PP also submitted a letter to Member Secretary, CECB regarding information on installation of Iron Ore Washery at SBPIL, Borjhara Division, Raipur (C.G.) vide letter No.SBPIL/BORJHARA/ENV/2022-23/1142 dated 31-10-2022 (Annexure-3).	
v.	Fugitive dust emissions (PM10 and PM 2.5 and heavy materials is such as Hg, Pb, As, Cr, etc.) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points shall be provided and properly maintained.	**Partially Complied with respect to site visit.** It was observed that mist water spray system, permanent and removable water sprinklers are installed at different locations and same are being operated and properly maintained. It was also observed that wheel wash system also found installed near main gate for controlling of Fugitive dust, generated from vehicles movement. PP has submitted the Fugitive Emission report for the month of April, 2022 and it was observed that the values are within the limits. **However, on the day of visit huge fugitive emission was observed near DRI kiln-1 and Near SMS plant.** **It was also observed that Coal dust was accumulated on the some of the internal roads and the same was observed on the garland drains also. PA has been asked to properly maintain the internal roads and garland drains on regular time**	**Regarding fugitive emission observed near the DRI Kiln -1,** we would like to inform you, after your visit, we our self-inspected that area and came to know that kiln-1 iron fines transfer duct (from Cooler discharge to Kiln feed area) got puncture that time and material was falling from there. It was immediately rectified, by welding of that puncture area. **Regarding fugitive emission near SMS area: -** We would like to inform you that to control fugitive emission due to vehicle movements, we have installed moveable water sprinkler in each unit, apart from water sprinkling by water tanker. On the day, in our SMS unit area, Due to vehicle movement water supply pipe line of sprinkler got disrupted which was rectified immediately. **Regarding accumulation of coal dust on some internal roads and garland drains,** we would like to inform you, that apart from road cleaning by Mechanical sweeping	On the day of monitoring it was observed that all the internal roads were cleaned and dust sweeping machine was deployed or the same. It was also observed that garland drains were also cleaned and PP assured to maintenance of the garland drains regularly. No fugitive emissions were observed near the Kiln-I area on the day of visit.	All the internal roads are regularly cleaned by dust sweeping machine. Good housekeeping practices are being adopted. Garland drains are cleaned on regular interval by housekeeping team. Fugitive emissions are being maintained in prescribed limits. In addition to that we have ordered advance technology to control fugitive emissions from Sponge Iron Units and same is being installed within one month. Details of technology is enclosed herewith. All the parameters as desired are being monitored by NABL Accredited Laboratory and data is being maintained.

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and visit dated 14-11-2022.	Status as on April, 2023
		intervals for good housekeeping practices. (General Condition No. iv)	machine, we are doing manual cleaning of roads. In this process, after manually roads cleaning, collected road dust is being stored on corner of the roads, than it is being collected in manually operated hand trolley for safe disposed off. On your visit day also this process was operational. Now to avoid this condition, we are increasing no. of hand trollies and instructed cleaning team for its simultaneous collection also and not to leave on road corners. This system is started and we are maintaining it. Photographs of same are enclosed.		
vi.	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEM etc. shall be provided with ear plugs/muffs.	**Partially complied with respect to site visit.** It was observed that personal safety equipment like ear plug/muffs are also being provided for employees who are working in noise prone area. **PA has been asked to submit the noise level monitoring report to the office. (General condition No. vi).**	**Regarding Noise level monitoring report:-** We would like to inform you, that Noise level in plant area is being monitored by outside authorized agency and our Env. Lab's officers, on regular basis. Copy of report is enclosed as Annexure 4.	**PP has submitted the noise level monitoring report for the month of April, 2022. The same was analyzed and found within the limits.**	**Noise levels are being maintained within the prescribed norms.**
vii.	The Project Authorities shall advertise in newspapers – one national and two local widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days	**Not complied with respect to site visit. PA has been asked to submit the newspaper advertisement copies in which EC was published to this office. (General condition no. xv).**	**Submit the copies of advertisement, published in Newspaper :-** We would like to inform you, that after grant of EC, we had advertised the information of grant of EC to us, in 03 nos. newspaper, as directed. Compliance status is being	**It was informed by the PP that the copies of newspaper are not traceable in their records owing to more than 12 year old record.**	PP would like to inform you, that after grant of EC, we had advertised the information of grant of EC to us, in 03 nos. newspaper, as directed. Compliance status is being uploaded in our website and data's are being displayed at the entrance of the plant premises. However the copies of newspaper are

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and visit dated 14-11-2022.	Status as on April, 2023
	of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the SPCB and may also be seen at the website of the ministry of Environment & Forest at http:envfor.nic.in The Compliance status shall also be uploaded by the project authorities in their website and regularly (at six monthly) updated so as to bring the same in the public domain. The data shall also be displayed at the entrance of the project premises and mines office and in corporate office.		uploaded in our website and data's are being displayed at the entrance of the plant premises. However the copies of newspaper are not traceable in our records owing to more than 12 years old records.		not traceable in our records owing to more than 12 years old records.

(B) Ferro & Biomass Project

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and IRO visit dated 14-11-2022.	Status as in April, 2023
i.	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fume and dust extraction system with bag filters shall be provided at the alternate transfer and discharge points to control fugitive emissions Further.	**Partially Complied with respect to site visit.** It was observed that mist water spray system, installed at closed conveyer belt circuit other areas, permanent and movable water sprinklers are also installed at required locations. Covered conveyer belt circuit of material transfer & discharged points, connected with dust	**Regarding accumulation of coal dust on some internal roads and garland drains: -** we would like to inform you, that apart from road cleaning by Mechanical sweeping machine, we are doing manual cleaning of roads. In this process, after manually roads cleaning, collected road dust is being stored on corner of the roads, and then it is being	On the day of monitoring it was observed that all the internal roads were cleaned and dust sweeping machine was deployed for the same.	All the internal roads are being regularly cleaned by dust sweeping machine. Good housekeeping practices are being adopted. Strength of house keeping staff will be increased by appointing at least 15 workers, out of which 90% will be

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and IRO visit dated 14-11-2022.	Status as in April, 2023
	specific measures like water sprinkling around the coal stock piles and asphalting or concreting of the roads shall be done to control to reduce the dust generation and fugitive emissions during handling	extraction system and bag filter. It was observed that all the internal roads are RCC and Mechanical Sweeping machine are deployed for cleaning the roads. In Addition to that water sprinkling system also provided. **However on the day of monitoring it has been observed that coal dust was accumulated on the some of the internal roads and the same was observed on the garland drains also. PA has been asked to properly maintain the internal roads and garland drains on regular time intervals for good housekeeping practices. (Specific condition No.-II).**	collected in manually operated hand trolley for safe disposed off. On your visit day also this process was operational. Now to avoid this condition, we are increasing no. of hand trollies and instructed cleaning team for its simultaneous collection also and not to leave on road corners. This system is started and we are maintaining it. Photographs of same are enclosed as annexure 1.		women from local area. All efforts will be taken to improve the House keeping further.
ii.	Secondary fugitive emissions from all the sources including existing sponge iron plant and captive power plant shall be controlled within the latest permissible limits, issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.	**Partially Complied with respect to site visit.** It was observed that ESP, Bag filters, Mist Water Spray systems, Water Sprinklers etc. have been installed at DRI plant and at Power plant. PP has submitted the fugitive Emission Report and the same were found within the limit. **However, on the day of visit huge fugitive emissions were observed near DRI kiln – I and near SMS plant. It was also observed that Coad dust was Accumulated on the some of the internal roads and the same was observed on the garland drains also. PA has been asked to properly maintain the internal roads and garland drains on regular time intervals for good housekeeping practice**s.	**Regarding fugitive emission observed near the DRI Kiln -1,** we would like to inform you, after your visit, we our self-inspected that area and came to know that kiln-1 iron fines transfer duct(from Cooler discharge to Kiln feed area) got puncture that time and material was falling from it. It was immediately rectified, by welding of that puncture area. **Regarding fugitive emission near SMS area:** - We would like to inform you that to control fugitive emission due to vehicle movements, we have installed moveable water sprinkler in each unit, apart from water sprinkling by water tanker. On the day, in our SMS unit area, Due to vehicle movement water supply pipe line of sprinkler got disrupted	On the day of monitoring it was observed that all the internal roads were cleaned and dust sweeping machine was deployed for the same. It was also observed that garland drains were also cleaned and PP assured to maintenance of the garland drains regularly. No fugitive emissions were observed near the Kiln-I area on the day of visit.	All the internal roads are being regularly cleaned by dust sweeping machine. Good housekeeping practices are being adopted. Garland drains are being cleaned on regular interval by housekeeping team. Fugitive emissions are being maintained in prescribed limits. In addition to that we have ordered advance technology to control fugitive emissions from Sponge Iron Units and same is being installed within one month.Details of technology is enclosed herewith. Strength of house keeping staff will

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and IRO visit dated 14-11-2022.	Status as in April, 2023
		(Specific condition No.iii).	which was rectified immediately.		be increased by appointing at least 15 workers, out of which 90% will be women from local area. All efforts will be taken to improve the House keeping further.
iii.	All the granulated slag shall be provided to cement /brick manufacturers for manufacturing Pozzolona Slag Cement (PSC) or making bricks. No granulated slag shall be used for road construction and filling low-lying areas. All the char /Dolochar shall be used in the AFBC boiler. Hexavalent Chromium present in the slag shall be converted to trivalent Chromium; Ferro chrome shall be stored in secured landfill as per the CPCB guidelines. Bottom ash shall be disposed off in a suitably designed landfill as per CPCB guidelines to prevent leaching to the sub-soil and underground aquifer ETP sludge after drying shall be used as fertilizer for green belt development Used oil shall be sold to recyclers and pre-processors.	**Partially Complied with respect to site visit.** It was informed that generated slag from Ferro alloys unit disposed off in a safe and scientific manner for leveling of low laying areas inside and outside plant. Bottom ash generated 08 MW Biomass based power plant is being used in our fly ash bricks plant as a Raw material. Generated used oil is being used for lubrication in roller conveyer as well as belt conveyer of the plat and balance if any is being sold to recyclers/Authorized Agencies. Generated Char/ Dolochar is being used in our AFBC boiler of Borjhara and Gondwara unit (Coal based Power Plant). **On the day of monitoring it has been observed that 2 no. DRI kilns of 350 TPD found installed and operational. It was also observed that char dust was stored inside at backside of the plant premises. PA has been asked to submit the reasons for dumping the Char inside the plant premises and ATR shall be submitted for its utilization and its proper disposal to this office. (Specific condition No. vi).**	**Regarding operation of 2 nos. DRI Kilns of 350 TPD each,** we would like to inform you, that our Both 350 TPD capacity DRI Kilns has been installed in 2005 and we have already granted CTE and CTO from Head office, Chhattisgarh Environment Conservation Board, Raipur (C.G.) and regularly granting their Renewals, latest renewal is valid up to May, 2023. **Regarding Char accumulation observed at back side of the plant area,** we would like to inform you that, our char generation is about 200 T/Day, which is being stored at covered shed area at RM Yard and being used in our 8 MW Bio Mass based power plant at Borjhara unit and 16 MW AFBC power plant in Gondwara unit as a raw material. During the month of July-August'22, there was 25 day shutdown in our both 16 MW AFBC power plant and 8 MW Biomass base power plant. Intimation of the same was given to respected state pollution control board (copied enclosed as annexure 2). Hence, resulting accumulation of huge amount of char. However these accumulated char is our raw material for both plant	On the day of monitoring it was observed that all the internal roads were cleaned and dust sweeping machine was deployed or the same. It was also observed that most of char dust was removed from back side of the plant and it was informed that the same is being used as raw material in their power plant. PP has also submitted the copy of letter and copy of e-mail communication intimating to RO, CECB regarding shut down of 16 MW in the month of July & August, 2022.	All the internal roads are regularly being cleaned by dust sweeping machine. Good housekeeping practices are being adopted. Garland drains are cleaned on regular interval by housekeeping team. Dolochar is being consumed on regular basis in captive 8 MW bio-mass power plant and 16 MW coal based power plant of sister concern. No stock of dolochar is accumulated in site plant premises.

Sr. No.	Conditions	Observation reported on 26-08-2022	Compliance status as on	Updated compliance based on ATR submitted by the PP and IRO visit dated 14-11-2022.	Status as in April, 2023
			and we are using that by blending it with our fresh generated char and being consumed now.		
iv.	The overall noise levels In and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	**Partially Complied with respect to site visit.** It was observed that personal safety Equipment like ear plug/ Muffs are also being provided employees who are working in Noise prone area. **PA has been asked to submit the noise level monitoring report to this office. (General condition – vii).**	**Regarding Noise level monitoring report:-** We would like to inform you, that Noise level in plant area is being monitored by outside authorized agency and our Env. Lab's officers, on regular basis. Copy of report is enclosed as annexure 3.	**PP has submitted the noise level monitoring report for the month of April, 2022. The same was analyzed and found within the limits.**	**Noise levels are being maintained within the prescribed norms.**
v.	The Project Authorities shall inform the Regional office as well as ministry, the date of Financial closure and Final approval of the project by the concerned authorities and the date of commencing the land development work.	**Partially Complied with respect to site visit.** PP has submitted the date off commencing date to this office. Details pertains to the financial closures were not provided. (General condition No. xiv).	We would like to inform you that we had submitted document related to financial closures. However the copies are not traceable in our records owing to more than 14 years old records.	It was informed by PP that the copies are not traceable in their records owing to more than 14 year old records.	We would like to inform you that we had submitted document related to financial closures. However the copies are not traceable in our records owing to more than 14 years old records.

Written representations:

26.4.19 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 12.04.2023 through email dated 13.04.2023 submitted the following information:

- An undertaking dated 12.04.2023 by the project proponent seeking apology for violation and undertaking that in future they will not make any further violation.
- Regarding 40% of Plantation inside the Plant area, PP hereby confirm that at present there are about 27,000 well grown trees on 10.49 ha. of land inside the Plant premises. Total Plant area is 31.8 ha out of which PP has developed 33% i.e. 10.49 ha. Green belt. As per CPCB guidelines total 31,800 number of trees required on 12.72 ha. i.e. 40% of total Plant area. PP hereby confirm that they shall plant additional 5,000 trees (5 to 6 feet each) in existing green belt area i.e. 10.49 ha. PP also confirms that in addition to this they shall develop and

maintain plantation on 2.5 ha. land in Village - Bendri, Distt: Raipur (C.G.) as committed. Total number of trees in additional land will be 6,250 Nos. Total Plantation area will be inside (10.49 ha) & outside (2.5 ha) with total number of 38,250 trees.

- Revised Damage and Remediation Cost as updated in para 26.4.17 above.
- Configuration as per the proposal discussed in REAC Industry 1, 35th Meeting dated 30th April 2021 and Project under consideration in 26th meeting of REAC Industry I held on 12th April 2023 as updated in para 26.4.8 above.
- Details of court case as per the SOP of OM No. 22-21/2020-IA-Til dated 7 July 2021 as updated at para 26.4.17 above.
- Present status of the compliance of the condition after IRO's Raipur visit on 14.11.2022 and visit report dated 23.11.2022 as updated at para 26.4.18 above.

Deliberations by the Committee

26.4.20 The Committee noted the following:

1. The instant proposal is for expansion of Integrated Steel Plant as detailed in para 26.4.8 above.
2. The existing project was accorded environmental clearance vide lr.no. J-11011/531/2007-IA.II (I) dated 17.01.2008 & J-11015/159/2009-IA.II (M) dated 28.1.2010 & J-11015/159/2009- IA.II (M) dated 26.8.2013. Latest Renewal to Consent to Operate for the existing unit was accorded by Chhattisgarh Environment Conservation Board vide lr. No. 4657/TS/CECB/2022 dated 07.10.2022 for Steel Melting Shop 1.2960 MTPA. The validity of CTO is up to 31.08.2023. Latest Renewal of Consent to Operate (for Both Air & Water) is granted vide letter no. 8545/TS/CECB/2023 dated 07.03.2023 for SID (0.21 MTPA) and WHRB based Power Plant (18 MW) valid up to 31.03.2024. Latest Renewal of Consent to operate (for both air & water) is granted vide letter No. 1041/TS/CECB/2022 dated 04.06.2021 for Ferro alloys 14,400 MTPA and Biomass based Power Plant 8 MW valid from 31.05.2022 to 30.05.2023. Latest Renewal of Consent to Operate (for air and water) is granted vide letter No. 6991/TS/CECB/2023 dated 03.01.2023 for Coal washery 0.6 MTPA and Hot Re-rolling Mill Plant 0.12 MTPA valid from 01.01.2022 to 31.12.2023.
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. Total land required for the project is 31.8 ha [12.465 ha allotment is done by Chhattisgarh State Industrial Development Corporation (CSIDCL) and the balance 19.335 ha area is Private Purchased diverted for Industrial use.] and is completely under the possession of the company and is industrial land. Proposed expansion will be done within the existing plant premises.

7. Chronology of Expansion Proposal:

- M/s Shri Bajrang Power and Ispat Ltd. had earlier applied for grant of ToR vide proposal no. IA/CG/IND/67789/2017 dated 31.08.2017 for expansion of Integrated Steel Plant (Sponge Iron - 0.21 to 0.264 MTPA; Steel Melting – 0.129 to 0.211 MTPA; Ferro Alloy- 0.0144 to 0.0198 MTPA; Rolling Mill- 0.15 to 0.21 MTPA; New Pellet plant - 0.6 MTPA with coal gasifier from alternative fuel) located at village Borjhara, in Urla Industrial Complex, Raipur, Chhattisgarh. Accordingly, Terms of Reference was issued vide letter no. J-11011/531/2007-IA.II (I) dated 20.10.2017.
- M/s. Shri Bajrang Power & Ispat Limited vide online proposal no. IA/CG/IND/142035/2020 dated 10/02/2020 applied for amendment in ToR dated 20/10/2017 w.r.t. change in configuration and the production capacities and other amendments alongwith validity extension of ToR for another one year. Accordingly, letter was issued by the Ministry vide letter no. J-11011/531/2007-IA.II (I) dated 09.04.2020 with validity of ToR extended upto 19.10.2021 with changes in configuration / production capacities involving expansion of Integrated Steel Plant (Sponge Iron - 0.21 to 0.264 MTPA; Steel Melting – 0.129 to 0.211 MTPA; Ferro Alloy- 0.0144 to 0.0198 MTPA; Rolling Mill- 0.15 to 0.21 MTPA; New Pellet plant - 0.6 MTPA with coal gasifier from alternative fuel), 26 MW Captive Power Plant (WHRB – 18 MW; Biomass – 8 MW, Iron washery plant of 4,00,000 TPA, Titanium slag plant of 36,000 TPA and pig iron plant plant of 20,000 TPA.
- Thereafter, M/s Shri Bajrang Power and Ispat Ltd. applied for Environment Clearance vide proposal no. IA/CG/IND/193265/2007 dated 09/04/2021 and the proposal was considered during 35th meeting of the Re-constituted EAC (Industry-I) held on 30th April, 2021 wherein the Committee recommended the proposal to be returned in its present form to address the technical shortcomings.
- The project proponent applied vide Proposal No. IA/CG/IND/291775/2022 dated 15.09.2022 for seeking modification in ToR dated 20.10.2017 and subsequent amendment dated 09.04.2020 for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedures dated 07/07/2021 pertaining to consideration of violation cases as PP has reported that the company has installed Iron Ore Washery Plant and had run the plant for 1 month. The raw materials arrived at site and its quality was degrading day by day, so PP run the plan on trial basis for one month just to utilize that material. The PP has now stopped the operation activity. PP is ready to comply all the points of TOR for Violation Project and follow SOP dated 07.07.2021 for identification & handling of

Violation cases under EIA notification 2006. The proposal was considered during 14th Meeting of the EAC (Industry-I) held during 29th-30th September 2022 and after deliberations, the Committee recommended for modification in ToR dated 20.10.2017 and subsequent amendment dated 09.04.2020 w.r.t. appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedures dated 07/07/2021 pertaining to consideration of violation cases with stipulation of the additional specific conditions.

- Accordingly, the damage analysis report comprising of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation. is as follows:

Total Damage and Remediation Cost For Construction Activities and Trial Run Carried Out Under Violation

Sr. No.	Environmental Component	Total Damage Cost (Rs.)	Total Remediation Plan Cost (Rs.)
1	Air Environment	PP has installed and utilized 30 No. of water sprinklers covering working area for construction of Iron Ore Washing Plant. In addition to this one mobile water tanker is also used for dust suppression during construction period. Hence no damage on air environment is considered. Damage Cost During Operation Phase=23.88Lakh	Rs. 1,06,000/- for sprinklers and baricates Rs. 28,00,000/ for Green Belt in and around the plant
2	Noise Environment	Non-availability of PPEs Damage cost = Rs. 50,000/-	Rs. 50,000/-
3	Water Environment	Rs. 1088718/- for water consumed during construction and operation phase	Rs. 290 lakhs, provisions made in EMP (240 lakhs) for STP/ETP and rainwater harvesting (50 lakhs +Rs.15000/-
4	Land Environment	Rs. 2520/-	Rs. 30,000/-
5	Solid & Hazardous waste	Rs. 17800/-	Rs. 70,000/-
6	Biological Environment	Deficiate plantation and greenbelt in and around the plant (800 trees) Rs. 4,00,000/-	Rs. 28,00,000 (28.0 lakhs) for plantation and green belt in and around the plant (provision in EMP)
7	Socio-economic Environment (occupational health)	25,000/-	Rs. 35,000/-
8	Energy Consumption	Rs. 1,53,000/-	Rs. 2,50,000/- solar system

Sr. No.	Environmental Component	Total Damage Cost (Rs.)	Total Remediation Plan Cost (Rs.)
	Total	Rs. 41.25 lakhs.	Rs. 556000 +318 lakhs (provision for STP, ETP, RWH and plantation and greenbelt in and around plant site (290+28=318 lakhs)

Summary of Remediation Plan, Natural Resource and Community Augmentation Plan

Sr. No.	Activity Proposed	Total (Rs.)
1.	Cost of damage / Remediation plan	5,56,000 (excluding provisions of EMP cost of Rs. 318 lakhs) for STP, ETP, RWH and deficiate plantation in and around plant site
2.	Natural Resource Augmentation Plan	Rs. 19,25,000/-
3.	Community Augmentation Plan	Rs. 37,00,000/-
	Sub Total (A)	**Rs. 61,81,000/-**

Details of Penalty to be paid as per SOP of Office Memorandum No. F.No. 22-21/2020-IA-III dated July 7, 2021 regarding the subject matter of "Standard Operating Procedure (SOP) per identification and handling of violation cases under EIA Notification 2006 in compliance to order of Hon'ble National Green Tribunal in O.A. No. 34/2020 WZ- Regarding, Penalty Provisions for violation cases

S.N.	Description	Amount
1.	1% of total amount invested in construction of Iron Ore Washing Plant. Total amount invested: Rs. 2,64,16,273 1 % of 2,64,16,273	Rs. 2,64,162.73
2	0.25% of total turn over The plant was operated on trial bases for 1 month only. Total Iron ore washed for 5000 T. Cost of washed Iron Ore: Rs. 6000/T. Total Turn over: Rs. 3,00,00,000 0.25% of Rs. 3,00,00,000	Rs. 75,000
	Sub Total (B)	**Rs. 3,39,162.73**
	Grand Total (A+B)	**Rs. 65,20,163**

The Committee deliberated on the damage assessment report comprising of remediation plan and natural and community resource augmentation plan and found it satisfactory.

8. The project falls under Critically Polluted area of Raipur District of Chhattisgarh. PP shall comply to the CEPI Guidelines as per CPCB recommendations.

9. The nearest habitation to plant is Urla at a distance of 1 km in the East direction of the project site. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact on the habitation of the locals.
10. Distributary Nallah is adjacent to the project site in the West direction and Kharun River at a distance of 2.5 km in the NNW direction within 10 Km. radius of the plant site. The EAC is of the opinion that as submitted 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.
11. The existing Water requirement of 2442 m^3/day is obtained from Kharun River and permission for the same has been obtained from water resource department Chhattisgarh vide letter no. 302 dated 6.10.2004. The water requirement for the proposed project is estimated as 1065 m^3 /day, which is proposed to be met from Kharun River.
12. Presently, there are about 27,000 well grown trees on 10.49 ha. of land inside the Plant premises. Total Plant area is 31.8 ha out of which PP has developed 33% i.e. 10.49 ha. Green belt. As per CPCB guidelines total 31,800 number of trees required on 12.72 ha. i.e. 40% of total Plant area. PP commits that they will plant additional 5,000 trees (5 to 6 feet each) in existing green belt area i.e. 10.49 ha. PP also commits that in addition to this they will develop and maintain plantation on 2.5 ha. land in Village - Bendri, Distt: Raipur (C.G.) as committed. Total number of trees in additional land will be 6,250 Nos. Total Plantation area will be inside (10.49 ha) & outside (2.5 ha) with total number of 38,250 trees. The committee deliberated on the revised greenbelt development plan found it satisfactory.
13. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
14. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory
15. 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 along with the village adoption programme and found it satisfactory.
16. The Committee deliberated on the certified compliance report of IRO along with the ATR and updated status as submitted by the project proponent and is of the opinion that PP shall strict continue to comply with the observation made by IRO.
17. The EAC deliberated on the written submission of project proponent and found it satisfactory.
18. 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.
19. 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.

Recommendations of the Committee

26.4.21 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 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. <u>Specific conditions:</u>

(i) The State Government/SPCB to take action against the project proponent under the provision of section 19 of the Environment (Protection) Act, 1986. PP shall also strictly comply with other ToR conditions related to violation.

(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 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.

(iv) 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.

(v) The total amount of Rs. 61.81 Lakhs shall be spent on Remediation plan and Natural Resource Augmentation Plan and Community Resource Augmentation Plan which shall be implemented as per the action plan details given in EIA Report and summarized below:

Total Damage and Remediation Cost For Construction Activities and Trial Run Carried Out Under Violation

Sr. No.	Environmental Component	Total Damage Cost (Rs.)	Total Remediation Plan Cost (Rs.)
1	Air Environment	PP has installed and utilized 30 No. of water sprinklers covering working area for construction of Iron Ore Washing Plant. In addition to this one mobile water tanker is also used for dust suppression during construction period. Hence no damage on air environment is considered.	Rs. 1,06,000/- for sprinklers and baricates Rs. 28,00,000/ for Green Belt in and around the plant

Sr. No.	Environmental Component	Total Damage Cost (Rs.)	Total Remediation Plan Cost (Rs.)
		Damage Cost During Operation Phase=23.88 Lakhs	
2	Noise Environment	Non-availability of PPEs Damage cost = Rs. 50,000/-	Rs. 50,000/-
3	Water Environment	Rs. 1088718/- for water consumed during construction and operation phase	Rs. 290 lakhs, provisions made in EMP (240 lakhs) for STP/ETP and rainwater harvesting (50 lakhs +Rs.15000/-
4	Land Environment	Rs. 2520/-	Rs. 30,000/-
5	Solid & Hazardous waste	Rs. 17800/-	Rs. 70,000/-
6	Biological Environment	Deficiate plantation and greenbelt in and around the plant (800 trees) Rs. 4,00,000/-	Rs. 28,00,000 (28.0 lakhs) for plantation and green belt in and around the plant (provision in EMP)
7	Socio-economic Environment (occupational health)	25,000/-	Rs. 35,000/-
8	Energy Consumption	Rs. 1,53,000/-	Rs. 2,50,000/- solar system
	Total	Rs. 41.25 lakhs.	Rs. 556000 +318 lakhs (provision for STP, ETP, RWH and plantation and greenbelt in and around plant site (290+28=318 lakhs)

Summary of Remediation Plan, Natural Resource and Community Augmentation Plan

Sr. No.	Activity Proposed	Total (Rs.)
1.	Cost of damage / Remediation plan	5,56,000 (excluding provisions of EMP cost of Rs. 318 lakhs) for STP, ETP, RWH and plantation in and around plant site
2.	Natural Resource Augmentation Plan	Rs. 19,25,000/-
3.	Community Augmentation Plan	Rs. 37,00,000/-
	Sub Total (A)	**Rs. 61,81,000/-**

Details of Penalty to be paid as per SOP of Office Memorandum No. F.No. 22-21/2020-IA-III dated July 7, 2021 regarding the subject matter of "Standard Operating Procedure

(SOP) per identification and handling of violation cases under EIA Notification 2006 in compliance to order of Hon'ble National Green Tribunal in O.A. No. 34/2020 WZ- Regarding, Penalty Provisions for violation cases

S.N.	Description	Amount
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2	0.25% of total turn over The plant was operated on trial bases for 1 month only. Total Iron ore washed for 5000 T. Cost of washed Iron Ore: Rs. 6000/T. Total Turn over: Rs. 3,00,00,000 0.25% of Rs. 3,00,00,000	Rs. 75,000
	Sub Total (B)	**Rs. 3,39,162.73**
	Grand Total (A+B)	**Rs. 65,20,163**

(vi) The project proponent shall submit a bank guarantee of an amount of Rs. 81.61 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of environmental clearance (EC) as per Notification dated 14.03.2017.

(vii) Project proponent shall ensure that the plan shall be completed in three years whereas the bank guarantee shall be for five years. The bank guarantee shall be released by the SPCB after successful implementation of Remediation plan, Natural Resource Augmentation Plan and Community Resource Augmentation plan.

(viii) The nearest habitation to plant is Urla at a distance of 1 km in the East direction of the project site. Project Proponent shall prepare and implement an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include some of these locations in its environmental monitoring programme.

(ix) 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 included in the EIA/EMP report. Greenbelt shall be planned in 40% of the project area. Allocation for socio economic development of nearby villages shall be 1.5 times of the normal calculated amount.

(x) Distributary Nallah is adjacent to the project site in the West direction and Kharun River at a distance of 2.5 km in the NNW direction within 10 Km. radius of the plant 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 implemented.

(xi) The existing water requirement of 2442 m^3/day and for proposed project of 1065 m^3 /day shall be met from Kharun River after obtaining necessary permission from the Competent Authority.

(xii) The PP shall undertake village adoption and formulate Village Adoption program consisting of need-based community development activities, shall be prepared to develop them into model villages.

(xiii) All the observations stated in the certified compliance report of IRO dated 14.11.2022 shall be complied with as committed. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

(xiv) Three tier Green Belt shall be developed in a atleast 40% of total project area as per the plan 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 Urla village. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

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

(xvi) Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.

(xvii) Solid waste utilization

- 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.
- PP shall recycle/reuse solid waste generated in the plant as far as possible.
- Used refractories shall be recycled as far as possible.

(xviii) Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.

(xix) 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.

(xx) Secondary fume extraction system shall be installed on converters of Steel Melting Shop.

(xxi) Electric Arc Furnace shall be closed type with 4^{th} hole extraction system.

(xxii) 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.

(xxiii) Dust emission from all the stacks shall be less than 30 mg/Nm^3.

(xxiv) Carbon-monoxide sensors with alarm for criticality should be installed at strategic locations in the Plants and monitored.

(xxv) Air Cooled condensers shall be used in the captive power plant.

(xxvi) During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. 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.

(xxvii) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.

(xxviii) Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

(xxix) 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. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.

(xxx) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

(xxxi) All the commitments made to the public during the Public Hearing/Public Consultation 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 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.

(xxxii) 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.

(xxxiii) 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.

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 04 Nos. Continuous Ambient Air Quality Station (CAAQS) 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 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.

iii. Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.

iv. 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.

v. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

vi. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.

vii. 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.

viii. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

ix. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.

x. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

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 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) 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. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

iv. 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.

v. Tyre washing facilities shall be provided at the entrance of the plant gates.

vi. Water meters shall be provided at the inlet to all unit processes in the steel plants.

IV. Noise monitoring and prevention

i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

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. Ensure installation of regenerative/recuperative 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. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.

ii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

i. Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant

ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.

iii. 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 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.

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. 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.

ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. 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.

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. 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.

vi. 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.

vii. 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.

viii. 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.

ix. 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).

x. 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.

xi. 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.

xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xiv. 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.

xv. 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.

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Consideration of Amendment in Environment Clearance Proposal

Agenda No. 26.5

26.5 Amendment in EC of Integrated Steel Plant 6 MTPA and Captive Power Plant 810 MW by M/s Jindal Steel and Power Ltd. at Angul, State Odisha-Consideration of Amendments in EC proposal.

[Proposal No. IA/OR/IND/298472/2023; File No. J-11011/365/2006-IA.II(I)]

26.5.1 M/s Jindal Steel & Power Limited has made an online application vide proposal no. IA/OR/IND/296415/2023 dated 23.03.2023 along with Form-4 and addendum EIA Report and sought for amendment in Environment Clearance accorded by the Ministry vide letter no. J-11011/365/2006-IA.II (I) dated 14.03.2022 w.r.t. change in land requirement from 2213 acres to 2010.27 acres.

Details submitted by Project proponent

26.5.2 M/s. Jindal Steel and Power Limited was originally accorded environmental clearance vide letter no. J-11011/365/2006 dated 22/02/2007 and amended on 14/11/2008, 08/02/2017, 26/06/2018, 22/01/2019 and 18/01/2021 for 6 MTPA Integrated Steel plant at Angul Odisha. M/s Jindal Steel & Power Limited then applied for splitting of the original EC dated 2007 and subsequent amendments and partially transferring the Pellet Plant and Hot Strip Mill from JSPL to M/s Jindal Steel Odisha Ltd. (JSOL), a wholly owned subsidiary of JSPL. Accordingly, part transfer of the said facilities was granted to M/s. JSOL and subsequently the EC of M/s. Jindal Steel and Power Limited was amended with exclusion of said facilities vide letter dated 14.03.2022 which also included inter-alia, transfer of project land of 86.68 acres to M/s. JSOL out of total land of 2300 acres. Thus M/s. Jindal Steel and Power Limited were left with 2213 acres of land as per EC amendment letter dated 14.03.2022.

26.5.3 The instant proposal is for seeking amendment in EC dated 22/02/2007 and subsequent amendments dated 14/11/2008, 08/02/2017, 26/06/2018, 22/01/2019, 18/01/2021 and 14.03.2022 w.r.t. change in land requirement from 2213 acres to 2010.27 acres for existing 6 MTPA Integrated Steel plant of JSPL located at Angul, Odisha. The balance land of 202.73 acres is proposed to be utilized by M/s Jindal Steel Odisha Ltd. (JSOL) for its expansion project involving expansion of its Pellet Plant and Hot Strip Mill to an Integrated Steel Plant of 19.2 MTPA and a Cement Plant of 12.5 MTPA at Angul. The expansion project of M/s JSOL has been deliberated and recommended by the Expert Appraisal Committee (Industry-1) during its meeting held on 22.03.2023. The distribution of land among M/s. JSPL and M/s. JSOL after proposed expansion proposal is as follows:

	Land details as per EC Amendment dated 14.03.2022	Proposed Land after expansion of JSOL and amendment in JSPL EC		Remarks
		JSPL	JSOL	
JSPL (6 MTPA Steel Plant)	2213	2010.27	202.73	• 202.73 acres of land from existing 6 MTPA Steel plant of JSPL will be sub-leased to JSOL for the proposed expansion project. • Govt. of Odisha vide its letter dated 21.06.2022 allowed JSPL to sub-lease the land measuring 2120.325 acres to JSO
JSOL (Pellet Plant & HSM)	86.68	0	86.68	
Total	**2300**	**2010.27**	**289.41**	

26.5.4 Due to the proposed changes in the land area, the green belt area will reduce from 702 acres to 672 acres as around 30 acres of greenbelt are will be transferred to M/s. JSOL. The project proponent has also submitted an undertaking dated 22.03.2023 to maintain 33% greenbelt area in the total plant areae of 2010.27 acres.

26.5.5 There is no change in configuration & capacity of units in granted EC.

26.5.6 It has been reported by PP that, directions vide letter no. 22424 dated 01.12.2022 were issued by Odisha State Pollution Control Board and subsequently OSPCB through its latest directions vide letter no. 3804 dated 17.03.2023 has issued time frame for implementation of the directions. In this regard, JSPL has submitted the undertaking to the SPCB to comply with the same in bound manner.

Deliberation by the Committee

26.5.7 The Committee noted the following:

i. M/s. Jindal Steel and Power Limited was originally accorded environmental clearance vide letter no. J-11011/365/2006 dated 22/02/2007 and amended on 14/11/2008, 08/02/2017, 26/06/2018, 22/01/2019 and 18/01/2021 for 6 MTPA Integrated Steel plant at Angul Odisha. M/s Jindal Steel & Power Limited then applied for splitting of the original EC dated 2007 and subsequent amendments and partially transferring the Pellet Plant and Hot Strip Mill from JSPL to M/s Jindal Steel Odisha Ltd. (JSOL), a wholly owned subsidiary of JSPL. Accordingly, part transfer of the said facilities was granted to M/s. JSOL and subsequently the EC of M/s. Jindal Steel and Power Limited was amended with exclusion of said facilities vide letter dated 14.03.2022 which also included inter-alia, transfer of project land of 86.68 acres to M/s. JSOL out of total land of 2300 acres. Thus M/s. Jindal Steel and Power Limited were left with 2213 acres of land as per EC amendment letter dated 14.03.2022.

ii. The instant proposal is for seeking amendment in EC dated 22/02/2007 and subsequent amendments dated 14/11/2008, 08/02/2017, 26/06/2018, 22/01/2019, 18/01/2021 and 14.03.2022 w.r.t. change in land requirement from 2213 acres to 2010.27 acres for existing 6 MTPA Integrated Steel plant of JSPL located at Angul, Odisha. The balance land of 202.73 acres is proposed to be utilized by M/s Jindal Steel Odisha Ltd. (JSOL) for its expansion project involving expansion of its Pellet Plant and Hot Strip Mill to an Integrated Steel Plant of 19.2 MTPA and a Cement Plant of 12.5 MTPA at Angul. The distribution of land among M/s. JSPL and M/s. JSOL after proposed expansion proposal is as detailed in para 26.5.3 and 26.5.4 above.

iii. The EAC noted that the expansion project of M/s JSOL has been deliberated and recommended by the Expert Appraisal Committee (Industry-1) during its meeting held on 22.03.2023. The EAC also noted that the EAC (Industry-1) sub-committee has visited the project site of M/s Jindal Steel Odisha Limited (JSOL), on 21-22nd February 2023, located at Villages Basudevpur, Panpur, Kaliakata Jungle, Badakerjang, Badakerjang Jungle, Jamunda, Jamunda Jungle, Paripara and Jarada, Tehsil: Chhendipada& Banarpal, District Angul, Odisha. The PP shall implement all the recommendations of the visit report of sub committee of EAC.

iv. Due to the proposed changes in the land area, the green belt area will reduce from 702 acres to 672 acres as around 30 acres of greenbelt are will be transferred to M/s. JSOL. The project proponent has also submitted an undertaking dated 22.03.2023 to maintain 33% greenbelt area in the total plant area of 2010.27 acres.

v. The EAC also recorded that there is no further change in configuration & capacity of units in granted EC to M/s. JSPL.

vi. The EAC noted that directions vide letter no. 22424 dated 01.12.2022 were issued by Odisha State Pollution Control Board and subsequently OSPCB through its latest directions vide letter no. 3804 dated 17.03.2023 has issued time frame for implementation of the directions. In this regard, JSPL has submitted the undertaking to the SPCB to comply with the same in bound manner.

Recommendations of the Committee

26.5.8 After deliberations, the Committee **recommended** the proposal for amendment in EC granted vide letter no. J-11011/365/2006 dated 22/02/2007 and subsequent amendments dated 14/11/2008, 08/02/2017, 26/06/2018, 22/01/2019, 18/01/2021 and 14.03.2022 w.r.t. change in land requirement from 2213 acres to 2010.27 acres for existing 6 MTPA Integrated Steel plant of JSPL located at Angul, Odisha as detailed in para 26.5.3 and 26.5.4 above. The PP shall implement all the recommendations of the visit report of sub committee of EAC.

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Consideration of Modification in ToR Proposal

Agenda No. 26.6

26.6 Greenfield Project for Installation of Production Facilities for Pelletization Plant (0.60 MTPA), DRI Plant (0.42 MTPA), SMS with Caster (0.25 MTPA), Captive Power Plant of 85 MW (WHRB#32 MW & Coal & Dolochar based#53 MW), Rolling Mill (0.20 MTPA), Mini Blast Furnace (0.26 MTPA), Sinter Plant (0.40 MTPA), DIP Plant (0.24 MTPA), PGP (3x8000 Nm3/hr) & Coal Washery Unit (0.98 MTPA)" by M/s Swadesh Metallics Pvt Ltd., located at Village-Kesda, Tehsil-Simga, District-Balodabazar-Bhatapara, Chhattisgarh- Consideration of Modification in TOR proposal.

[Proposal No. IA/CG/IND/298639/2023; File No. F. No. IA-J-11011/46/2021-lA-II(I)]

26.6.1 M/s Swadesh Metallics Private Limited., has made an application online vide proposal No:- IA/CG/IND/298639/2023, dated 31.03.2023 along with Form-3 and revised PFR and sought for amendment in Terms of Reference accorded by the Ministry vide no. IA-J-11011/ 46/2021-IA-II(I) dated 13.10.2021 w.r.t. changes in the configuration / capacity of proposed project pertaining to surrender of RHF unit, change in capacity of billets production & Power Plant and reduction of project land area from 84.98 ha to 58.68 ha.

Details submitted by Project proponent

26.6.2 M/s. Indoves Industrial Pvt. Ltd. had earlier applied for Terms of Reference vide proposal no. IA/CG/IND/227899/2023, dated 06.09.2021 for Greenfield project for Installation of Iron Ore Pellet Plant (0.6 MTPA), DRI Plant (0.42 MTPA), SMS with Caster (0.6 MTPA), Rolling Mill (0.20 MTPA), RHF unit (0.36 MTPA), Blast Furnace (0.26 MTPA), Sinter Plant (0.40 MTPA), DIP Plant (0.24 MTPA), Coal Washery Unit (0.98 MTPA) with Captive Power Plant (97 MW)" for producing TMT bar, wire rods, steel bar coils and de-coiled bars and Ductile Iron Pipes located at Village Kesda, Tehsil-Simga, District-Balodabazar-Bhatapara, Chhattisgarh. Accordingly, ToR was granted by the Ministry vide no. IA-J-11011/ 46/2021-IA-II(I) dated 13.10.2021.

26.6.3 The instant proposal is for seeking amendment in ToR dated 13.10.2021 w.r.t. changes in the configuration / capacity of proposed project pertaining to dropping of RHF unit, change in capacity of billets production & Power Plant and reduction of project land area from 84.98 ha to 58.68 ha as detailed below.

S. No.	Description	Confiiguration as per ToR dated 13.10.2021	Amendment Details	Final capapcity after proposed modification
1.	Iron Ore Pelletization Plant (With Grinding Unit)	1 x 0.6 MTPA (Capacity- 0.6 MPTA)	No change	1 x 0.6 MTPA (Capacity- 0.6 MPTA)
2.	DRI Plant (Sponge Iron)	4 x 350 TPD Kiln (Capacity- 0.42 MPTA)	No change	4 x 350 TPD Kiln (Capacity- 0.42 MPTA)

S. No.	Description	Confiiguration as per ToR dated 13.10.2021	Amendment Details	Final capapcity after proposed modification
3.	**SMS with Caster (With Caster 6x11, 3 strands)**	**IF -12x15 tonnes** **(Capacity- 0.6 MPTA)**	**IF – 6x15 tonnes = 0.25 MTPA (Reducing Capacity)**	**IF – 6x15 tonnes** **(Capacity- 0.25 MPTA)**
4.	Rolling Mill	600 TPD (Capacity- 0.20 MPTA)	No change	600 TPD (Capacity- 0.20 MPTA)
5.	**RHF unit**	**2x600 TPD (Capacity- 0.36 MPTA)**	**Dropping**	**-**
6.	Blast Furnace	250 m^3 (Capacity- 0.26 MPTA)	No change	250 m^3 (Capacity- 0.26 MPTA)
7.	Sinter Plant	45 m^2 (Capacity- 0.40 MPTA)	No change	45 m^2 (Capacity- 0.40 MPTA)
8.	DIP Plant	2 x 400 TPD (Capacity- 0.24 MPTA)	No change	2 x 400 TPD (Capacity- 0.24 MPTA)
9.	Coal Washery	(Capacity- 0.98 MPTA)	No change	(Capacity- 0.98 MPTA)
10.	**Captive Power Plant**	**52 MW-WHRB** **3 x 15 MW- CFBC** **(Capacity- 97 MW)**	**32 MW (WHRB Boiler)** **53 MW based on dolochar and coal (AFBC Boiler) – Reducing Capacity**	**32 MW (WHRB Boiler)** **53 MW based on dolochar and coal (AFBC Boiler)** **(Capacity- 85 MW)**
11.	Producer Gas	8000 Nm^3/hr	No change	8000 Nm^3/hr

26.6.4 Other changes:

S. No.	Description	As per ToR dated 13.10.2021	Final after proposed modification
1.	Land Area	84.98 ha	58.68 ha
2.	Greenbelt	29.13 ha	21.12 ha
3.	Water Requirememt	5648 KLD	3642 KLD
4.	Power Requirement	97 MW	85 MW
5.	Project Cost	Rs. 1480.50 Crores	Rs. 1221 Crores
6.	EMP Cost	Rs. 30 Crores	Rs. 24 Crores

26.6.5 **Reason for Amendment:**

PP has planned to surrender the RHF unit due to non- availability of technology in India and not economically feasible. As suggested by technical experts, PP has also proposed change in capacity of billets production & Power Plant. Land area is also reducing from 84.98 ha to 58.68 ha as some land owners are not willing to sell their land and PP has to reduce the site area according to the land already purchased from willing land owners.

26.6.6 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.

Written representations:

26.6.7 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 13.04.2023 through email dated 13.04.2023 submitted the following information:

- Final Configuration after proposed modification as updated at paa 26.6.3 above.
- Revised Plant layount with details of green belt area
- An undertaking dated 13.04.2023 by the project proponent stating that they will start the plantation work within the project site prior to grant of environment clearance.

Deliberation by the Committee

26.6.8 The Committee noted the following:

i. M/s. Indoves Industrial Pvt. Ltd. had earlier applied for Terms of Reference vide proposal no. IA/CG/IND/227899/2023, dated 06.09.2021 for Greenfield project for Installation of Iron Ore Pellet Plant (0.6 MTPA), DRI Plant (0.42 MTPA), SMS with Caster (0.6 MTPA), Rolling Mill (0.20 MTPA), RHF unit (0.36 MTPA), Blast Furnace (0.26 MTPA), Sinter Plant (0.40 MTPA), DIP Plant (0.24 MTPA), Coal Washery Unit (0.98 MTPA) with Captive Power Plant (97 MW)" for producing TMT bar, wire rods, steel bar coils and de-coiled bars and Ductile Iron Pipes located at Village Kesda, Tehsil-Simga, District-Balodabazar-Bhatapara, Chhattisgarh. Accordingly, ToR was granted by the Ministry vide no. IA-J-11011/ 46/2021-IA-II(I) dated 13.10.2021.

ii. The instant proposal is for seeking amendment in ToR dated 13.10.2021 w.r.t. changes in the configuration / capacity of proposed project pertaining to dropping of RHF unit, change in capacity of billets production & Power Plant and reduction of project land area from 84.98 ha to 58.68 ha as detailed in para 26.6.3 and 26.6.4 above.

iii. PP has reported that they planned to surrender the RHF unit due to non- availability of technology in India and being non feasible economically. As suggested by technical experts, PP proposed for change in capacity of billets production & Power Plant. Land area is reduced from 84.98 ha to 58.68 ha as some land owners are not willing to sell their land and PP has to reduce the site area according to the land already purchased from willing land owners.

Recommendations of the Committee

26.6.9 After deliberations, the Committee **recommended** the proposal for amendment in ToR granted vide no. IA-J-11011/ 46/2021-IA-II(I) dated 13.10.2021 w.r.t. changes in the configuration / capacity of proposed project pertaining to dropping of RHF unit, change in capacity of billets production & Power Plant and reduction of project land area from 84.98 ha to 58.68 ha as detailed in para 26.6.3 and 26.6.4 above. The other terms and conditions of ToR dated 13.10.2021 shall remain the same.

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DAY-2: APRIL 13, 2023 [FRIDAY]

Consideration in Environmental Clearance Proposals

Agenda No. 26.7

26.7 Expansion of existing Sponge Iron & Power Plant by installation of additional 1x350 TPD DRI kiln to increase the production of Sponge iron from 90,000 TPA to 1,95,000 TPA with 6.0 MW to 14 MW WHRB facility, 6.0 MW to 8.0 MW AFBC Power Plant, New Induction Furnaces of 4x30 T to produce 4,18,630 TPA of Billets & New Narrow Hot Strip Mill to produce H.R. Coils/Strips of 4,00,000 TPA by M/s. Agarwal Sponge and Energy Pvt. Ltd., located at Kudathini Village, Bellary Taluk & District, Karnataka-Consideration of EC proposal.

[Proposal No. IA/KA/IND1/414303/2023; File No. IA-J-11011/908/2007-IA-II(IND-I)]
[Consultant: Pioneer Enviro Laboratories & Consultants Pvt. Ltd., valid up to April 20, 2023]

26.7.1 M/s. Agarwal Sponge and Energy Pvt. Ltd. has made an online application vide proposal no. IA/KA/IND1/414303/2023 dated 29th March, 2023 along with EIA/EMP report, prescribed format (CAF, Form – I Part A, B &C) and certified compliance report seeking Environment Clearance (EC) under the provisions of EIA Notification, 2006. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (Ferrous and Non-ferrous) and 1(d) Thermal Power Plant under Category "A" of the schedule of the EIA Notification, 2006 and being appraised at Central Level.

26.7.2 Name of the EIA consultant: M/s. Pioneer Enviro Laboratories & Consultants Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/23/2699; valid upto 06.06.2023, as on April 20, 2023].

Details submitted by the project proponent

26.7.3 The detail of the ToR is furnished as below:

Date of application	Consideration	Details	Date of accord	ToR Validity
14th September 2019	12th meeting of EAC held on 21st October, 2019	Terms of Reference	11th February 2020	10.02.2024

26.7.4 The project of M/s. Agarwal Sponge and Energy Pvt. Ltd. located in Sy. No. 899/A, 899/B, 900, 902/B, 907/A, 907/B of Kudatini Village in Bellary Taluk & District of Karnataka is for expansion of existing Sponge Iron & Power Plant by installation of additional 1x350 TPD DRI kiln to increase the production of Sponge iron from 90,000 TPA to 1,95,000 TPA with increase in WHRB power from 6.0 MW to 14 MW, Increase of AFBC power generation from 6.0 MW to 8.0 MW, New Induction Furnaces of 4x30 T to produce 4,18,630 TPA of Billets & New

Narrow Hot Strip Mill to produce H.R. Coils/Strips of 4,00,000 TPA (85% Hot charging & remaining through reheating furnace with LDO/LSHS as fuel).

26.7.5 Environmental site settings

<table>
<tr><th>S.No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>1.</td><td>Total land</td><td>44.09Acres (17.83 Ha.)
[i.e. partly in Existing plant area of 20 Acres (8.09 Ha.) & adjoining Additional Land of 24.09 Acres (9.74 Ha.].</td><td>Land use: Existing Plant (Industrial land) & additional land proposed is Dry agricultural land and land diversion is under process.</td></tr>
<tr><td>2.</td><td>Land acquisition details as per MoEF&CC, O.M. dated 7/10/2014.</td><td>Currently the Land is in the name of
1) APSM Alloys Pvt Ltd - 15.00 Ac (diverted for NA)
2) APSM Alloys Pvt Ltd – 9.75 Acres (land diversion under process)
3) Murarilal Agarwal Agriculture Land 19.34 Ac (land diversion under process)</td><td>Agreements have been entered between the land owners (who are the directors of both the companies) and Agarwal Sponge & Energy Pvt Ltd and will be registered will be registered in 3 months time</td></tr>
<tr><td>3.</td><td>Existence of habitation & involvement of R&R, if any.</td><td>Project site: No habitation exists in the plant site.
Study Area
<table>
<tr><th>Habitation</th><th>Distance</th><th>Direction</th></tr>
<tr><td>Venivirapur</td><td>2.8 kms.</td><td>NE</td></tr>
<tr><td>Kudatini</td><td>2.9 kms.</td><td>NW</td></tr>
</table></td><td>--</td></tr>
<tr><td>4.</td><td>Latitude and Longitude of all corners of the project site</td><td>The following are the Coordinates of the Plant site
<table>
<tr><th>Point</th><th>Coordinates</th></tr>
<tr><td>Point # 1</td><td>15°10'18.35"N;
76°47'16.58"E</td></tr>
<tr><td>Point # 2</td><td>15°10'22.16"N;
76°47'18.30"E</td></tr>
<tr><td>Point # 3</td><td>15°10'23.29"N;
76°47'16.80"E</td></tr>
<tr><td>Point # 4</td><td>15°10'27.58"N;
76°47'16.48"E</td></tr>
<tr><td>Point # 5</td><td>15°10'28.74"N;
76°47'13.19"E</td></tr>
<tr><td>Point # 6</td><td>15°10'28.23"N;
76°47'10.23"E</td></tr>
<tr><td>Point # 7</td><td>15°10'30.22"N;
76°47'03.80"E</td></tr>
<tr><td>Point # 8</td><td>15°10'31.48"N;
76°47'04.18"E</td></tr>
<tr><td>Point # 9</td><td>15°10'33.16"N;
76°46'57.72"E</td></tr>
<tr><td>Point # 10</td><td>15°10'37.29"N;
76°46'58.82"E</td></tr>
</table></td><td>--</td></tr>
</table>

<table>
<tr><th>S.No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Point # 11</td><td>15°10'39.31"N; 76°46'52.60"E</td></tr>
<tr><td>Point # 12</td><td>15°10'31.63"N; 76°46'50.49"E</td></tr>
<tr><td>Point # 13</td><td>15°10'29.54"N; 76°46'54.58"E</td></tr>
<tr><td>Point # 14</td><td>15°10'26.65"N; 76°47'02.75"E</td></tr>
<tr><td>Point # 15</td><td>15°10'25.29"N; 76°47'02.54"E</td></tr>
<tr><td>Point # 16</td><td>15°10'21.35"N; 76°47'08.92"E</td></tr>
</table>
</td><td></td></tr>
<tr><td>5.</td><td>Elevation of the project site</td><td>97.485 m to 102.906 m</td><td>--</td></tr>
<tr><td>6.</td><td>Involvement of Forest Land, if any</td><td>Nil</td><td>--</td></tr>
<tr><td>7.</td><td>Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.,) exists within the project site as well as study area</td><td><u>Project Site:</u> Nil.

<u>Study area:</u>
<table>
<tr><th>Water body</th><th>Distance (kms.)</th><th>Direction</th></tr>
<tr><td>Urumundra Halla (other side of the road)</td><td>0.12</td><td>E</td></tr>
<tr><td>Bankan Halla</td><td>0.45</td><td>E</td></tr>
<tr><td>Tungabhadra High level Canal</td><td>5.8</td><td>N</td></tr>
<tr><td>Allipur Kere Reservoir</td><td>6.1</td><td>SE</td></tr>
<tr><td>Kanigana Halla</td><td>7.8</td><td>SW</td></tr>
</table>
</td><td>--</td></tr>
<tr><td>8.</td><td>Existence of ESZ / ESA / National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve etc. if any within the study area</td><td>Nil.

List of RF:
Chikkantapur RF (SW) - 6.0 km
Toranagallu RF (NWW) -7.5 Km
Bellary RF (S) – 7.5 Km</td><td>--</td></tr>
</table>

26.7.6 The existing project was accorded environmental clearance vide letter no. J-11011/908/2007-1AII (I) vide dated 11th December 2008 for expansion of Sponge Iron Plant (60,000 TPA to 90,000 TPA) and installation of Captive Power Plant (12 MW; 6 MW AFBC and 6 MW WHRB) and accordingly all units as per EC accorded are in operation. CTO has issued by KSPCB vide Consent No. AW-331642 dated 09-06-2022 which is valid upto 30.06.2027.

26.7.7 Implementation status as per existing EC:

S.No.	Facilities	Units	Total Capacity as per the EC issued vide dated 11.12.2008	Current status of operation as per CTO AW-331642 dated 09-06-2022 which is valid upto 30.06.2027
1	DRI Plant	Sponge Iron	90,000 TPA (3x100TPD)	90,000 TPA (3x100TPD)
2	WHRB Power Plant	Electricity	6MW	6MW
3	AFBC Power Plant	Electricity	6 MW	6 MW

26.7.8 The unit configuration and capacity of existing and proposed unit are given as below:

S. No.	Units (Products)	Existing Capacity (in Operation)	Expansion capacity	Production capacities After expansion Proposal
1.	DRI Kiln for (Sponge Iron)	3 x 100 TPD (90,000 TPA)	1,05,000 TPA (1x350 TPD)	1,95,000 TPA (3x100 TPD & 1x350 TPD)
2.	Induction furnace with CCM & LRF (Billets / Hot Billets)	---	4,18,630 TPA (4x30 T)	4,18,630 TPA (4x30 T)
3.	Rolling Mill to produce Hot Strips / Coils (85% hot charging + 15% through RHF with LDO/LSHS as fuel)	---	4,00,000 TPA	4,00,000 TPA
4.	Power generation through WHRB	6MW	8 MW	14 MW
5.	Power Plant through FBC Boiler	6 MW	2 MW*	8 MW*
Note: * As per the Specific ToR # 2 AFBC power plant of additional 2 MW is proposed to consume entire dolochar generated from proposed DRI kilns.				

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

S.No.	Raw Material		Quantity	Source	Distance from site (Kms)	Mode of Transport
For manufacturing Sponge Iron of 1,05,000 TPA						
1	Iron Ore **(OR)** Iron Ore Pellets		2,31,000 TPA **(OR)** 1,57,000 TPA	Bellary	~15	By road (through covered trucks)
2	Coal	Indian Coal	1,36,500 TPA	Open Market	~50	By road (through covered trucks)
		(OR)				

S.No.	Raw Material	Quantity	Source	Distance from site (Kms)	Mode of Transport
	Imported Coal	87,360 TPA	Indonesia / South Africa / Australia	~200	Through sea route, Rail & Road
3	Dolomite	10,500 TPA	Local Area	~50	By road (through covered trucks)
For manufacturing MS Billets – 4,18,630 TPA					
1	Sponge Iron	1,95,000 TPA	Own generation	--	----
2	Sponge Iron	1,71,000 TPA	External purchase from nearby plants in Bellary	~15	By road (through covered trucks)
3	Scrap	90,000 TPA	(Purchased from Local Area + in-house)	~50	By road (through covered trucks)
4	Pig Iron	44,000 TPA	Local Area		By road (through covered trucks)
For manufacturing HR coils & Strips – 4,00,000 TPA					
1	MS Billets	4,18,630 TPA	Own generation	--	By Conveyor
2	LDO /LSHS	8320 KL	Local Market	~50	By road (through covered trucks)
For Power Generation (2 MW) through AFBC Boiler					
1	Imported coal	2,240 TPA	Indonesia / South Africa / Australia	~200	Through sea route, Rail & Road
2	Dolochar	7,700 TPA	Own generation	--	By Conveyor

26.7.10 Existing Water requirement is 300 m^3/day and water drawl permission (NOC) for the same has been obtained from Karnataka Ground Water Authority (KGWA) vide letter no. KGWA/GW/NOC/14/2020-21/2439 dated 07-12-2020 and is valid till 06.12.2023. Water requirement for the proposed expansion project is estimated as 1565 m^3/day. Total water requirement after expansion will be 1865 m^3/day, which will be sourced from STP of

BALLARI MUNCIPAL CORPORATION (for supply of treated Sewage from Sewage Treatment Plant), Ballari. The permission for supply 4.0 MLD of Treated Sewage water has been obtained from Ballari City Muncipal Corporation Vide lr. dated 07.12.2022.

26.7.11 Power required for the Existing Plant & CTO permitted units is 2.1 MW and is being sourced from the State Grid. Power required for the proposed expansion project will be 57.1 MW and will be sourced Captive Power Plant and the state grid. Total Power Requirement after proposed expansion will be 59.2 MW and part of it will be sourced from 22 MW Captive Power Plant and Balance Power requirement of 37.2 MW will be sourced from the state grid.

26.7.12 Baseline Environmental Studies

<table>
<tr><td>Period</td><td>1st Oct 2019 to 31st Dec 2019
Subsequently the Baseline data has been revalidated by collecting additional one season baseline data i.e. from 1st Oct 2022 to 31st Dec 2022</td></tr>
<tr><td>AAQ parameters at 8 locations</td><td>
<table>
<tr><th>Parameter</th><th>:</th><th>Concentration (1st Oct 2019 to 31st Dec 2019)</th><th>Concentration (1st Oct 2022 to 31st Dec 2022)</th></tr>
<tr><td>$PM_{2.5}$</td><td>:</td><td>20.6 to 37.5 µg/m^3</td><td>23.3 to 40.2 µg/m^3</td></tr>
<tr><td>PM_{10}</td><td>:</td><td>35.2 to 66.5 µg/m^3</td><td>36.9 to 70.1 µg/m^3</td></tr>
<tr><td>SOx</td><td>:</td><td>6.1 to 17.4 µg/m^3</td><td>6.9 to 18.9 µg/m^3</td></tr>
<tr><td>NOx</td><td>:</td><td>6.3 to 18.8 µg/m^3</td><td>7.0 to 19.7 µg/m^3</td></tr>
<tr><td>CO</td><td>:</td><td>306 to 1215 µg/m^3</td><td>335 to 1322 µg/m^3</td></tr>
</table>
</td></tr>
<tr><td>AAQ modelling</td><td>PM_{10} = 2.2 µg/m^3 (1300 m in NE) PM_{10} (vehicular) = 0.7 µg/m^3
SO_2 = 12.5 µg/m^3 (1380 m in NE)
NO_X = 10.9 µg/m^3 (1320 m in NE) NO_X (vehicular) = 4.8 µg/m^3
CO (vehicular) = 2.8 µg/m^3</td></tr>
<tr><td>Ground water quality at 8 locations</td><td>
<table>
<tr><th>Parameter</th><th>:</th><th>Concentration (1st Oct 2019 to 31st Dec 2019)</th><th>Concentration (1st Oct 2022 to 31st Dec 2022)</th></tr>
<tr><td>pH</td><td>:</td><td>7.2 to 8.2</td><td>6.95 to 8.1</td></tr>
<tr><td>TSS (in mg/l)</td><td>:</td><td>0.32 to 0.70</td><td>0.28 to 0.80</td></tr>
<tr><td>TDS (in mg/l)</td><td>:</td><td>604 to 1060</td><td>566 to 988</td></tr>
<tr><td>Total Hardness (in mg/l)</td><td>:</td><td>234 to 532</td><td>252 to 454</td></tr>
<tr><td>Chlorides(in mg/l)</td><td>:</td><td>311 to 557</td><td>294 to 433</td></tr>
<tr><td>Fluoride(in mg/l)</td><td>:</td><td>0.44 to 1.2</td><td>0.41 to 1.1</td></tr>
<tr><td>Heavy metals (Iron -Fe) I(n mg/l)</td><td>:</td><td>0.014 to 0.26</td><td>0.016 to 0.28</td></tr>
<tr><td colspan="4">Heavy metals are within the limits.</td></tr>
</table>
</td></tr>
<tr><td>Surface water quality at 3 locations</td><td>
<table>
<tr><th>Parameters</th><th></th><th>Results (1st Oct to 31st Dec 2019)</th><th>Results (1st Oct to 31st Dec 2022)</th></tr>
<tr><td>pH</td><td>:</td><td>7.4 to 8.0</td><td>7.1 to 8.2</td></tr>
<tr><td>DO (in mg/l)</td><td>:</td><td>4.1 to 5.6</td><td>4.4 to 5.9</td></tr>
<tr><td>TDS (in mg/l)</td><td>:</td><td>188 to 608</td><td>171 to 774</td></tr>
<tr><td>Chlorides (in mg/l)</td><td>:</td><td>66 to 315</td><td>74 to 346</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td>
<table>
<tr><td>Sulphates (in mg/l)</td><td>:</td><td>47 to 202</td><td>58 to 255</td></tr>
</table>
</td></tr>
<tr><td>Noise levels</td><td>The equivalent day noise levels in the study zone are ranging from 43.7 dBA to 63.2 dBA & equivalent Night noise levels in the study zone are ranging from 34.4 dBA to 52.5 dBA during October, 2019 & further Noise levels collected during revalidation of Noise levels in October, 2022 and the equivalent day noise levels in the study zone are ranging from 44.6 dBA to 64.5 dBA & equivalent Night noise levels in the study zone are ranging from 35.1 dBA to 53.6 dBA.</td></tr>
<tr><td>Traffic assessment study findings</td><td>Traffic study has been conducted at NH # 63 (Hubli to Ballari) which is Close to the plant site.

Transportation of raw material, fuel& finished product will be done 60% by road.

Existing PCU is 1388 PCU/hr on NH # 63 and existing Level of Service(LOS) is :
<table>
<tr><th>Road</th><th>V(Volume in PCU/hr)</th><th>C (Capacity in PCU/hr)</th><th>Proposed V/C Ratio</th><th>LOS</th></tr>
<tr><td>NH # 63</td><td>1388</td><td>2900</td><td>0.48</td><td>C</td></tr>
</table>
PCU load after proposed expansion project will be 1388 (Existing) + 133 (Additional) and Level of Service (LOS) will be
<table>
<tr><th>NH # 63; Hubli to Ballari</th><th>Existing Baseline Scenario (V) (PCU/hr)</th><th>Due to the Expansion Project (V) (PCU/hr)</th><th>Total (PCU/hr)</th><th>Capacity of Road (C) (PCU/hr)</th><th>V/C ratio</th><th>LOS</th></tr>
<tr><td>PCU/Hour</td><td>1388</td><td>133</td><td>1521</td><td>2900</td><td>0.52</td><td>C</td></tr>
</table>
Level of Service (LOS) of the Road as per IRC 106-1990
<table>
<tr><th>V/C</th><th>LOS</th><th>Performance</th></tr>
<tr><td>0.0 – 0.2</td><td>A</td><td>Excellent</td></tr>
<tr><td>0.2 – 0.4</td><td>B</td><td>Very Good</td></tr>
<tr><td>0.4 – 0.6</td><td>C</td><td>Good</td></tr>
<tr><td>0.6 – 0.8</td><td>D</td><td>Fair/ Average</td></tr>
<tr><td>0.8 – 1.0</td><td>E</td><td>Poor</td></tr>
<tr><td>1.0 & Above</td><td>F</td><td>Very Poor</td></tr>
<tr><td colspan="3">V = Volume in PCU’s /hr, C= Capacity PCU’s /hr, LOS = Level of Service</td></tr>
</table>
• As per the above the LOS of the ROAD is categorised under ‘C’, which implies “GOOD”.
• Hence the existing road is capable of taking the additional vehicular traffic due to the proposed expansion project.</td></tr>
<tr><td>Flora and fauna</td><td>No schedule I fauna and endangered Flora observed within the study area.</td></tr>
</table>

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

S.No.	Waste	Quantity (TPA)			Method of disposal
		Existing	Proposed	After Expansion	
1	Ash from DRI	16,200	18,900	35,100	Is being / will be given to Brick manufacturers.
2	Dolochar	18,000	21,000	39,000	Will be utilized in captive AFBC boiler based power plant.
3	Kiln Accretion Slag	900	1,050	1,950	Will be given to brick manufacturers.
4	Wet Scraper Sludge	4,140	4,830	8,970	Will be given to brick manufacturers.
5	SMS Slag	---	41,863	41,863	Slag from SMS will be crushed and iron will be recovered & remaining non –magnetic inert material will be used in road construction /will be given to Road contractors.
6	Mill scales from Rolling Mill	---	8,000	8,000	Mill scales from Rolling Mill will be given to nearby Sinter Plants / Ferro Alloy units.
7	Ash from CPP using Imported Coal	54	---	54	Is being given to brick manufacturers
8	STP sludge	---	4.5 Kg/day	4.5 Kg/day	Will be used as manure for Greenbelt development
NOTE: Solid wastes such as dolochar, accretion slag, SMS slag will be stored in designated storage yard. Ash generated will be stored in silos only. There will not be any open storage of fly ash. All other storage yards will be on top of stable liner to avoid leaching of material to ground water.					
However, upon commencement of production, TCLP will be conducted and disposal of slag will be in accordance with the MoEF&CC/CPCB/SPCB norms					

Hazardous waste generation, storage & disposal:

1. **Waste oil: 3.0 KL / Annum**

This will be stored in covered HDPE drums in a designated area and will be given to SPCB approved vendors.

2. **Used Batteries**

Used batteries will be given back to the supplier under buy back agreement with supplier.

26.7.14 Public Consultation:

Date of advertisement	12-07-2022 & 13-07-2022
Name of newspapers	1) Hosadigantha - Kannada (Advt. on 12-07-2022) 2) Times of India (Advt. on 12-07-2022)

	3) E Namma Kannada Nadu – Kannada (Advt. on 13-07-2022)
Date on which Public Hearing conducted	12.08.2022 at 11:00 AM
Venue	Public Hearing was conducted at proposed expansion project site of M/s. Agarwal Sponge & Energy Pvt.Ltd., Sy. No. 899/A, 899/B, 900, 902/B, 907/A, 907/B. Kudathini village, Bellary taluk & district, Karnataka.
Chaired by	Additional District Magistrate
Major issues raised	• Environmental protection measures • Employment to Locals. • Dust Pollution • Health Impacts. • Utilization of CSR funds for the development of the surrounding villages. • Plantation in nearby villages. • Provide Rainwater Harvesting system • Hospital facility • Maintain 33% of the area with Greenbelt. • Bus facility for School Children. • Drinking water Facility in Veniveerapura village.

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

The budget is allocated for the Social & Infrastructure development activities based on SIA study & based on Public Consultation. The following 4 nos. of Villages to be adopted namely Kudathini, Haraginadone, Vaniveerapura and Allipur.

S.NO.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION			TOTAL EXPENDITURE (Rs. in Lakhs)
			1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	
A) Need Based & SIA						
1	**Community & Infrastructure Development Programmes**					
	i) Construction of public toilets	Physical Nos. & village	3 nos. in Veniveerapura (v) & 3 nos. in Allipur (v)	3 nos. in Haraginadone (v) & 3 Nos. in Thumati (v)	2 nos. in Kudathini (v) & 4 Nos. in Janikunte (v)	36
		Budget in Lakhs	12.0	12.0	12.0	
	ii) LED lights with solar panels	Physical Nos. & village	10 nos. in Veniveerapura (v) & 20 nos. in Kudathini (v)	15 nos. in Haraginadone (v) & 15 Nos. in Allipur (v)	10 nos. in Janikunte (v) & 20 Nos. in Thimlapur (v)	18

S.NO.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION			TOTAL EXPENDITURE (Rs. in Lakhs)
			1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	
		Budget in Lakhs	6	6	6	
					Total	**54**
2	**Education**					
	i) Providing Sport kits for schools	Physical Nos. & village	15 nos. in Allipur (v) & 15 Nos. in Kudathini (v)	10 nos. in Veniveerapura (v) & 10 Nos. in Thumati (v)	15 nos. in Thimlapur (v) & 15 Nos. in Haraginadone (v)	8
		Budget in Lakhs	3	2	3	
	ii) Construction of class rooms in schools of size 10m x 8m x 4 m	Physical Nos. & village	5 rooms in Kudathini (v) & Haraginadone (v)	4 rooms. in Veniveerapura (V) & Thumati (v)	5 rooms in Allipur (V) & Thimlapur (v)	140
		Budget Rs in Lakhs	50	40	50	
					Total	**148**
3	RWH pits in the surrounding villages & De-siltation of ponds	Physical Nos. & village	RWH pits in 4 nos. each in Kudathini (v) Veniveerapura (V)	Allipur (v) pond desiltation 1.0 m depth	RWH pits in Kudathini school (3 nos)& Panchayat office (4 nos), Haraginadone school (3 nos)	28
		Budget in Lakhs	8	10	10	
			79	**70**	**81**	**230**
					Sub Total (A)	**230**
B) Based on Public Consultation						
1	Impart training to the local villagers for skill development. a)DISHA Centre" along with necessary infrastructure for various	Physical Nos. & village	One DISHA centre in Kudathini Village			
		Budget in Lakhs	70	70	70	**210**

S.NO.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION			TOTAL EXPENDITURE (Rs. in Lakhs)
			1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	
	vocational training program for employment generation in association with National Skill Development Mission (Automobile Repair, Welding, Electrical, Computer Hardware, Soft skills like computer programs etc.)					
2	Development of plantation in villages (inclusive of medicinal plants in villages	Physical Nos.&village	Kudathini (2000 nos),	Haraginadone (2000 nos),	Veniveerapura (2000 nos).	**30**
		Budget in Lakhs	10	10	10	
3	Mineral water plants	Physical Nos. & village	2s no. in Veniveerapura (v) & 2 nos. in Thumati (v)	2 nos. in Allipur (v) & 2 Nos. in Kudathini (v)	2 nos. in Janikunte (v) & 2 Nos. in Haraginadone (v)	**30**
		Budget in Lakhs	10	10	10	
4	Providing bus facility for school, children	Physical Nos. & village	---	Kudathini (v)	---	**50**
		Budget in Lakhs	---	50	---	
5	Providing PHC & Ambulance facility	Physical Nos. & village	**Kudathini**	**----**	**----**	**50**
		Budget in Lakhs	**50**	**----**	**----**	
			140	**140**	**90**	**370**
					Sub Total (B)	**370**

S.NO.	MAJOR ACTIVITY HEADS	YEAR OF IMPLEMENTATION			TOTAL EXPENDITURE (Rs. in Lakhs)
		1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	
	TOTAL	**219**	**210**	**171**	
				Grand Total(A+B)	**600**

Recurring expenditures under CSR as per companies Act 2014

- Health checkup will be carried out periodically in surrounding villages i.e. Kudathini, Allipur, Veniveerapura, Haraginadone villages @ Rs 5.0 Lakhs every year.

26.7.15 The capital cost of the expansion project is Rs.400 Crores and the capital cost for environmental protection measures is proposed as Rs. 30 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs.3.90 Crores. The employment generation from the proposed expansion project is 250 direct & 300 Indirect. The details of cost for environmental protection measures is as follows:

S.No	Particulars	Capital Cost (Rs.in Crores)	Recurring Cost / Annum (Rs.in Lakhs)
1	**Air Emission Management**		
	· Electro Static Precipitators (ESP)	8.00	80
	· Fume Extraction system with bag filters	7.00	80
	· other APCS & Conveyor systems	2.00	20
	· Stacks	3.00	9.0
	· Mechanical Dust sweepers	0.15	1.5
	· Water Sprinklers	0.10	0.5
	Wastewater Management		
2	ETP	0.50	10
	STP	0.40	10
	Garland drains & Settling ponds	0.25	3
	Solid waste Management		
3	Fly Ash Handling & disposal	1.50	45
	Slag Handling & Disposal	0.30	5
	Hazardous waste storage & disposal	0.10	5
	Municipal solid waste storage & disposal	0.05	2.5
4	Greenbelt development	0.55	5.8
5	Storm water drainage system	0.70	0.2
6	Noise Management	0.20	10
7	RWH in Plant	0.15	1.5
8	Fire Safety Systems	2.20	30
9.	**Environmental Monitoring**		
	· CEMS	0.50	5
	· CAAQMS	1.60	16
	· Environment Monitoring	0.00	9
	· Performance monitoring of APCS	0.00	1
10.	**Occupational Health & Safety**		
	· Occupational Health centre with Ambulance	0.50	15
	· Personal Protective Equipment's (PPEs)	0.25	25
		30.0	**390**

S.No	Particulars	Capital Cost (Rs.in Crores)	Recurring Cost / Annum (Rs.in Lakhs)
11.	Social & Infrastructural Development (SID)	4.0	---
		34.0	**390**

26.7.16 Existing green belt has been developed in 2.67 Ha. area which is about 33 % of the Existing plant area of 8.09 Ha. with total plants of 6857 nos. Trees. Proposed greenbelt will be developed in 3.4 Ha. which is about 34.9% of the additional land area of 9.74 Ha. Thus total of 6.07 Ha. area (34 % of total project area i.e. 17.83 Ha.) will be developed as greenbelt. 10 m to 55 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 plants will be 16457 . 9,600 nos. of plants s will be planted and nurtured in 6.07 Ha. in 2 years on receipt of EC (1st year – 5000 nos & 2nd Year – 4600 nos.).

26.7.17 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.

Certified Compliance Report from Regional Office

26.7.18 The Status of compliance of earlier EC was obtained from Integrated Regional Office, Bangalore vide letter no. 5-12.1/601/143/Kar/855 dated 31st October 2022 in the name of M/s. Agarwal Sponge And Energy Pvt. Ltd. The Action taken report regarding the partially/non-complied condition was submitted to Integrated Regional Office, Bangalore vide letter dated 08.02.2023. Integrated Regional Office, MoEF&CC, Bangalore evaluated the same and has issued letter dated 21.02.2023. Further submitted ATR for Non Compliances/partial Compliance to IRO, MoEF&CC on 09.03.2023. The details of the observations made by IRO in the report dated 27.03.2023 along with its re-assessment / present status as furnished by the PP is given as below:

S.No.	Non- compliances details	Observation of IRO (abridged)	Condition no.			Re-assessment by IRO
			EC date	Specific	General	
1	**E.C. General Condition no. (x)** An implementation schedule for all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Bangalore. **E.C. General Condition no. (xi)** A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Irregularity in submission of Half yearly report	11-12-2008	----	(x) & (xi)	PP submitted the latest compliance report to this office vide email dated 07.03.2023 PP assured that the reports will be submitted regularly henceforth.

S.No.	Non- compliances details	Observation of IRO (abridged)	Condition no.			Re-assessment by IRO
			EC date	Specific	General	
	(J-11011 / 908 / 2007- IA II(I), dated 11th Dec, 2008)					
2	**E.C. General Condition no. (ix)** The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc. **(J-11011 / 908 / 2007- IA II(I), dated 11th Dec, 2008)**	Need based Assessment of near by villages	11-12-2008	----	(ix)	As per the information provided, it is observed that PP carried out need based assessment studies as part of EIA study for expansion project and identified works to be carried out in the fields of Education, drinking water, health, plantation, skill development and infrastructure in nearby villages such as Kudathini, Veniveerapura, Thumati, Haraginadone and Allipur villages. PP will allocate an amount of Rs. 400 lakhs for above works.
3	**E.C. General Condition no. (iv)** Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bangalore/KPCB and CPCB once in six months. **E.C. General Condition no. (vi)**	PM_{10} and Noise Levels are too high	11-12-2008	----	(iv) & (vi)	As per the monitoring reports of February 2023, PM_{10} level in the plant area found to be 69.7 $\mu g/m^3$. Also, day and night time

S.No.	Non- compliances details	Observation of IRO (abridged)	Condition no.			Re-assessment by IRO
			EC date	Specific	General	
	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) **(J-11011 / 908 / 2007- IA II(I), dated 11th Dec, 2008)**					noise levels found to be 70.6 dB(A) and 63.5 dB(A). The ambient air and noise levels found to be confirming prescribed standards
4	**E.C. Specific Condition no. (xiii)** As committed, a hospital in collaboration with other shall be established for the general benefit of the public. A note on the MOU signed with others, their share for the establishment of hospital, facilities to be provided, staff and time required for the establishment of the same etc. shall be submitted to the Ministry and its Regional Office at Bangalore **(J-11011 / 908 / 2007- IA II(I), dated 11th Dec, 2008)**	No MoU for establishment Of Hospital In Collaboration with other Industries etc.	11-12-2008	(xiii)	----	PP submitted that the Board Resolution of the company allocated **Rs.1.0 Crore** for the construction of hospital in collaboration with other industries

Written representations:

26.7.19 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 17.04.2023 through email dated 17.04.2023 and 18.04.2023 submitted the following information:

1. A letter dated 15.04.2023 by the project proponent conforming that they have not taken any construction activity at site pertaining to the expansion project hence, they have not made any violation.
2. **Revised Action Plan as per MoEF&CC O.M. dated 30/09/2020** - Revised Action plan as per MoEF&CC O.M. dated 30/09/2020 with a budget of 1.5% of Project cost (Rs. 400 Crores) = Rs. 6.0 Crores. The same is updated at para 26.7.14 above
3. **Details regarding Iron Ore Screening facility / Magnetic Separator exist in the additional land shown for expansion project –** PP submitted that the Iron Ore Screening facility has been established by the previous management in the year 2010 in the additional land shown for expansion project now and the unit subsequently became NPA. The new management has taken over the plant in the year 2018 and this facility has not been utilized

by the present company at any point of time. PP is not using Iron ore in its existing sponge iron plant. PP also submitted that they are using only Iron ore pellets in its existing sponge iron plant. Hence, they do not require I/O screening facility. PP further assures that they will be dismantling the screening facility in its project site with immediate effect.

4. **Lease agreement with the Land on Individual Director name i.e. Shri. Murarilal Agarwal over an extent of 19.34 Acres** - Shri. Murarilal Agarwal have entered Lease agreement with Agarwal Sponge & Energy Pvt. Ltd. for the land of 19.34 Acres. A copy of the Lease agreement dated 13.04.2023 is submitted.

Deliberations by the Committee

26.7.20 The Committee noted the following:

1. The instant proposal is for expansion of existing Sponge Iron & Power Plant by installation of additional 1x350 TPD DRI kiln to increase the production of Sponge iron from 90,000 TPA to 1,95,000 TPA with increase in WHRB power from 6.0 MW to 14 MW, Increase of AFBC power generation from 6.0 MW to 8.0 MW, New Induction Furnaces of 4x30 T to produce 4,18,630 TPA of Billets & New Narrow Hot Strip Mill to produce H.R. Coils/Strips of 4,00,000 TPA (85% Hot charging & remaining through reheating furnace with LDO/LSHS as fuel).
2. The existing project was accorded environmental clearance vide letter no. J-11011/908/2007-1AII (I) vide dated 11th December 2008 for expansion of Sponge Iron Plant (60,000 TPA to 90,000 TPA) and installation of Captive Power Plant (12 MW; 6 MW AFBC and 6 MW WHRB) and accordingly all units as per EC accorded are in operation. CTO has issued by KSPCB vide Consent No. AW-331642 dated 09-06-2022 which is valid upto 30.06.2027.
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. Total land required for the project is 44.09Acres (17.83 Ha.) [i.e. partly in Existing plant area of 20 Acres (8.09 Ha.) & adjoining Additional Land of 24.09 Acres (9.74 Ha.]. Currently the Land is in the name of
   - APSM Alloys Pvt Ltd - 15.00 Ac (diverted for NA)
   - APSM Alloys Pvt Ltd – 9.75 Acres (land diversion under process)
   - Murarilal Agarwal Agriculture Land 19.34 Ac - Shri. Murarilal Agarwal have entered Lease agreement with Agarwal Sponge & Energy Pvt. Ltd. for the land of 19.34 Acres. A copy of the Lease agreement dated 13.04.2023 is submitted.

   Agreements have been entered between the land owners (who are the directors of both the companies) and Agarwal Sponge & Energy Pvt Ltd and will be registered will be registered in 3 months time
7. The nearest habitation to plant are Venivirapur (2.8 Km, NE) and Kudatini (2.9 Km, NW) of the project site. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact on the habitation of the locals.
8. Urumundra Halla is at a distance of 0.12 km and Bankan Halla at 0.45 km in East Direction of the project site within 10 Km. radius of the plant site. The EAC is of the opinion that as submitted 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.
9. The total water requirement after expansion will be 1865 m^3/day, which will be sourced from STP of Ballari Muncipal Corporation (for supply of treated Sewage from Sewage Treatment Plant), Ballari.
10. 4 nos. of Villages namely Kudathini, Haraginadone, Vaniveerapura and Allipur are proposed to be adopted by the project proponent for socio-economic development.
11. Existing green belt has been developed in 2.67 Ha. area which is about 33 % of the Existing plant area of 8.09 Ha. with total plants of 6857 nos. Trees. Proposed greenbelt will be developed in 3.4 Ha. which is about 34.9% of the additional land area of 9.74 Ha. Thus total of 6.07 Ha. area (34 % of total project area i.e. 17.83 Ha.) will be developed as greenbelt. Total no. of plants will be 16457 out of which 9,600 nos. of plants will be planted and nurtured in 6.07 Ha. in 2 years on receipt of E.C. (1^{st} year – 5000 nos & 2nd Year – 4600 nos.). The committee deliberated on the greenbelt development plan found it satisfactory.
12. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
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 along with the village adoption programme and found it satisfactory.
15. The Committee deliberated on the certified compliance report of IRO along with the ATRs and updated status as submitted by the project proponent and is of the opinion that PP shall strictly continue to comply with the observation made by IRO.
16. The EAC deliberated on the written submission of 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.

Recommendations of the Committee

26.7.21 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 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. <u>Specific conditions:</u>

(i) 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.

(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 acquisition of complete proposed land and conversion for industrial purpose prior to commencement of project.

(v) The nearest habitation to plant i are Venivirapur (2.8 Km, NE) and Kudatini (2.9 Km, NW) of the project site. Project Proponent shall prepare and implement an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include some of these locations in its environmental monitoring programme.

(vi) Urumundra Halla is at a distance of 0.12 km and Bankan Halla at 0.45 km in East Direction of the project site within 10 Km. radius of the plant 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 implemented.

(vii) The total water requirement after expansion of 1865 m^3/day shall be sourced from STP of Ballari Muncipal Corporation (for supply of treated Sewage from Sewage Treatment Plant), Ballari after obtaining necessary permission from the Competent Authority.

(viii) The PP shall undertake village adoption as committed in 4 nos. of Villages namely Kudathini, Haraginadone, Vaniveerapura and Allipur and formulate Village Adoption program consisting of need-based community development activities to develop them into model villages.

(ix) All the observations stated in the certified compliance report of IRO dated 31.10.2022 and 21.02.2023 shall be complied with as committed. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

(x) Three tier Green Belt shall be developed in a atleast 33% of total project area as per the plan 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 Venivirapur and Kudatini villages. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

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

(xii) 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.

(xiii) 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.

(xiv) Secondary fume extraction system shall be installed on converters of Steel Melting Shop.

(xv) 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.

(xvi) Dust emission from all the stacks shall be less than 30 mg/Nm^3.

(xvii) Carbon-monoxide sensors with alarm for criticality should be installed at strategic locations in the Plants and monitored.

(xviii) Air Cooled condensers shall be used in the captive power plant.

(xix) During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. 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.

(xx) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.

(xxi) Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

(xxii) 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. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.

(xxiii) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

(xxiv) All the commitments made to the public during the Public Hearing/Public Consultation 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 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.

(xxv) 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.

(xxvi) 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.

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 04 Nos. Continuous Ambient Air Quality Station (CAAQS) 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 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.

iii. Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.

iv. 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.

v. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

vi. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.

vii. 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.

viii. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

ix. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.

x. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

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 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) 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. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

iv. 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.

v. Tyre washing facilities shall be provided at the entrance of the plant gates.

vi. Water meters shall be provided at the inlet to all unit processes in the steel plants.

IV. Noise monitoring and prevention

i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

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. Ensure installation of regenerative/recuperative 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. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.

ii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

i. Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant

ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.

iii. 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 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.

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. 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.

ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. 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.

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. 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.

vi. 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.

vii. 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.

viii. 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.

ix. 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).

x. 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.

xi. 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.

xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xiv. 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.

xv. 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. 26.8

26.8 Expansion of Integrated Cement Project - Clinker (1.48 to 4.38 MTPA), Cement (2.28 to 6.14 MTPA), CPP (25 to 60 MW) and WHRB (4.7 to 15 MW) by M/s. Nirma Limited [Now M/s Nuvoco Vistas Corp. Ltd.] located at Villages - Nimbol and Sinla, Tehsil - Jaitaran, District Pali, Rajasthan-Reconsideration of EC proposal.

[Proposal No. IA/RJ/IND/56521/2011; MoEF&CC File No. J-11011/01/2010-IA.II(I)]
[Consultant: J.M. EnviroNet Pvt. Ltd. ; Valid upto : 07.08.2023]

26.8.1 M/s. Nirma Limited (Now M/s. Nuvoco Vistas Corporation Limited) has made an online application vide Proposal No. IA/RJ/IND/56521/2011 dated 05.02.2020 along with copy of EIA/EMP report, in prescribed Form 2 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(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.

26.8.2 Name of the EIA consultant: M/s. J.M. EnviroNet Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2023/SA 0172; Valid up to 07.08.2023, as on April 20, 2023].

Details submitted by Project proponent

26.8.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord
11.11.2016	12th Meeting of EAC held on 23rd Nov., 2016	Terms of Reference	04.08.2017

26.8.4 The project of M/s. Nirma Limited (Now M/s. Nuvoco Vistas Corporation Limited) is located in Nimbol and Sinla Villages, Jaitaran Tehsil, Pali District, Rajasthan state is proposing Expansion of Integrated Cement Project (Clinker - 1.48 to 4.38 Million TPA), Cement (2.28 to 6.14 Million TPA), CPP (25 to 60 MW) and WHRB (4.7 to 15 MW).

26.8.5 The proposal was initially considered in the 16th meeting of the previous Reconstituted EAC (Industry-I) sector held during 24-25th February, 2020 wherein the Committee deferred the proposal for want of permission required for abstraction of ground water from CGWA.

26.8.6 Subsequently, the proponent submitted the ADS reply vide Letter dated 24th March, 2023 uploaded on PARIVESH on 24th March, 2023. Point-wise reply of ADS is given below:

S. No.	ADS Point	Reply / Response of PP
1.	***ADS dated 30th March, 2020***	• Existing total water requirement for the plant is 1123 KLD which is being/ will be sourced from Ground Water and

S. No.	ADS Point	Reply / Response of PP
	The project was appraised for grant of Environmental Clearance in the 16th meeting of the Re-constituted EAC (Industry - I) held on 25th February, 2020 and the committee deferred the proposal for **"want of permission required for abstraction of groundwater from CGWA."**	additional water requirement for the expansion project will be 1377 KLD. Thus, the total water requirement after expansion will be 2500 KLD. • The permission for drawl of 1123 KLD groundwater (Existing requirement) has been obtained from CGWA *vide* Letter No. 21-4(493)/WR/CGWA/2011-4952 dated 10th December, 2012 in the name of M/s. Nirma Ltd. • The company has obtained CGWA NOC renewal for the existing water requirement i.e., 1123 KLD *vide* NOC No. CGWA/NOC/IND/REN/1/2022/7105 dated 10th Dec., 2022, valid up to 09th Dec., 2024. • The name change from M/s. Nirma Ltd. to M/s. Nuvoco Vistas Corporation Ltd. in the existing CGWA NOC has been applied on 20th Jan., 2023, which is under process. • The additional water requirement for the expansion project is 1377 KLD for which application has been submitted to CGWB and the same has been forwarded to CGWA, New Delhi on 12th Jan., 2023.
2.	***ADS dated 02nd Feb., 2023*** Dear Sir, the name of project is M/s. Siddhi Vinayak Cement Pvt. Ltd.; however, the name of PP is M/s Nirma Ltd. Please confirm which is correct and revise your application on portal as the whole process is online on parivesh and EC is also being generated digitally from the System.	• Initially, Environment Clearance for the above project was obtained from MoEFCC, New Delhi *vide* Letter No. J-11011/01/2010-IA-II(I) dated 29th March, 2011 in the name of M/s. Siddhi Vinayak Cement Ltd. • M/s. Nirma Ltd. has acquired M/s. Siddhi Vinayak Cement Ltd. and subsequently, transfer of existing EC Letter in the name of M/s. Nirma Limited from M/s. Siddhi Vinayak Cement Ltd. under clause 11 of EIA Notification, 2006, as amended from time to time has also been obtained from MoEFCC, New Delhi vide letter no. J-11011/01/2010-IA-II(I) dated 31st July, 2017. • Thereafter, the cement division of M/s. Nirma Ltd. demerged and merged in Nuvoco Vistas Corporation Ltd. by the way of scheme of arrangement approved by Hon'ble National Company Law Tribunal at Mumbai Bench. • Name change in Existing Environmental Clearance has also been obtained from MoEFCC from Nirma Ltd. to M/s. Nuvoco Vistas Corporation Ltd. on dated 10th Aug., 2020.
3.	***ADS dated 06th Feb., 2023*** Dear Sir, On perusal it is noted that PP has still not revised the name of PP and Project. Since the whole	• In compliance of the ADS raised, we have mailed Director, NIC on 11th Feb., 2023 and 06th March, 2023 *to correct the name of PP and Project.*

S. No.	ADS Point	Reply / Response of PP
	process is online on portal, the digital EC is being granted through portal so PP is requested to correct the name of PP and Project as we asked question earlier on portal. However, PP has not revised the project name and again submitted the application without change of the name of PP and project	• In the same context and in compliance of the ADS raised, kindly grant us the Environmental Clearance in the name of M/s. Nirma Ltd. itself.

26.8.7 Based on the above submission of PP, the proposal was reconsidered during 26th meeting of the EAC for Industry-I sector held on 12th, 13th and 17th April, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

26.8.8 The Committee noted the following:

1. The EAC noted that the total water requirement after expansion will be 2500 KLD; which is being/ will be sourced from Ground Water. Permission for withdrawal of 1123 KLD (Existing requirement) of ground water has already been obtained from CGWA vide NOC No. CGWA/NOC/IND/REN/1/2022/7105 dated 10th December, 2022, valid up to 9th December, 2024. The name change from M/s. Nirma Ltd. to M/s. Nuvoco Vistas Corporation Ltd. in the existing CGWA NOC has been applied on 20th January, 2023; which is under process. The additional water requirement for the expansion project is 1377 KLD for which application has been submitted to CGWB and the same has been forwarded to CGWA, New Delhi on 12th January, 2023. The EAC deliberated that previous Committee had deferred the instant proposal for want of permission required for abstraction of ground water from CGWA. PP has still not obtained the required permission for the additional water required for the expansion project. In view of the same, the EAC advised PP to submit the desired water permission from the Competent Authority for further consideration of the project.
2. PP shall further explore the possibility of meeting its requirement from treated municipal water so that dependence on the ground water is reduced in a phased manner.
3. PP needs to submit an undertaking by way of affidavit that they have not made any violation pertaining to expansion or production after obtaining Environment Clearance.
4. The EAC noted that as reported existing greenbelt has been developed in 24.4 ha area which is about 35% of the total existing Plant area i.e. 70 ha with total saplings of 52000 trees and gap fill will also be done with 9000 trees to maintain the density 2500 trees/ha. Proposed greenbelt will be developed in 8.5 ha which is about 33% of the total additional area i.e. 25.764 ha. Thus, a total of 32.9 ha (34.35 % of total project area i.e. 95.764 ha) will be developed as greenbelt with total saplings of 21500 trees. Total no. of 61000

saplings will be planted and nurtured in 32.9 ha in next 03 years. The EAC opined that gap filling shall be undertaken and maximum plantation shall be completed within 1st year in consultation with institutes like Arid Forest Research Institute, Jodhpur. PP shall submit a revised greenbelt development plan along with an undertaking in this regard.

5. The PP shall prepare 3 different drawings. Drawing No 1 should include a layout with Road Networking, Traffic channelization, 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.

6. The Committee deliberated on the public hearing issues along with 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 baseline data has been collected during December 2016 to February 2017 which is more than 3 years old. PP shall submit the comparison of the baseline data with the monitoring data as submitted in the latest six monthly compliance report for revalidation.

8. The EAC deliberated on the certified compliance report of IRO dated 09.04.2019 which is more than 3 years old. In pursuance to the Ministry's OM dated 08.06.2022, the EAC is of the opinion that PP shall obtain fresh certified compliance report of IRO along with closure report for any non-compliances, if any.

9. The EAC deliberated on the raw material requirement of the plant and is of the view that source of gypsum for cement plant shall be elaborated in detail.

10. The project proponent shall also provide details of carbon foot prints and carbon sequestration study w.r.t. proposed project and also propose the mitigation measures.

11. The PP shall prepare a Village Adoption program consisting of need - based community development activities and submit an undertaking for adoption of villages including the name of villages.

12. The EAC noted that there is Sinla Village at a distance of 0.5 km from the project site. Also there are other ESA's like school and hospital within the study area. PP shall submit the specific mitigation measures that will be undertaken to minimise the impact of project activities on these ESA's.

13. Dukliya Nadi is at a distance of 1.2 km (N) and Hathi Bala at 1.5 km (W) of the project site within 10 Km. radius of the plant site. The EAC is of the opinion that 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.

14. There is no proper Engineering drawing of a layout. It 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.

15. In view of above, the PP requested the Committee to allow to reappear with the revised information/ clarification to the points deliberated during appraisal.

Recommendations of the Committee

26.8.9 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** due to certain deficiencies in the proposal and sought requisite information on the points referred at para no. 26.8.8 above. The proposal shall be considered after submission of requisite information and updating the Report on Parivesh Portal.

***

Consideration in Terms of Reference Proposal

Agenda No. 26.9

26.9 Proposed 72,000 TPA Asbestos & Non-Asbestos Flat Cement Sheets (Asbestos Cement Sheets-57,600 TPA & Non-Asbestos Cement Sheets- 14,400 TPA) manufacturing unit by M/s Kamya Industries Private Limited, located at survey No. 25/1B, 25/2, 26/2, Vedadri Village, Jaggaipet Mandal, NTR district, Andhra Pradesh- Consideration of TOR.

[Proposal No. IA/AP/IND1/413783/2023; File No. IA-J-11011/14/2023-IA-II(IND-I)]
[Consultant: Ecomen Laboratories Pvt. Ltd; Valid upto: 21.09.2023]

26.9.1 M/s. Kamya Industries Private Limited has made an application online vide proposal no. IA/AP/IND1/413783/2023 dated 27.03.2023 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 Sl. No. 4(c) Asbestos Milling and Asbestos based Products under Category "A" of the schedule of the EIA Notification, 2006 and being appraised at Central Level.

26.9.2 Name of the EIA consultant: M/s. Ecomen Laboratories Pvt. Ltd [List of ACOs with their Certificate / Extension Letter No: NABET/EIA/2023/RA0203 valid till 21.09.2023, as on April 20, 2023].

Details submitted by Project proponent

26.9.3 The project of M/s Kamya Industries Private Limited located in Vedadri Village, Jaggayyapeta Mandal, NTR District, Andhra Pradesh is for setting up of a new Asbestos & Non-Asbestos Flat Cement (AC & NAC) Sheets manufacturing Unit for production of Total 72,000 TPA Sheets (AC Sheets - 57,600 TPA & NAC Sheets - 14,400 TPA).

26.9.4 Environmental site settings:

<table>
<tr><th>SN.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>i)</td><td>Total Land</td><td>6.7 acres or 2.712 ha (Private Land)</td><td>Land use: Agricultural Land converted for non-agricultural use, vide Competent Authority & Revenue Divisional Officer letter no. Rc. No. Lc. Rc.A.324 / JPT / 2022 Dt. 10.12.2022</td></tr>
<tr><td>ii)</td><td>Land Acquisition Details</td><td>100% land acquired vide Sale Deed dated 21st Sept. 2022.</td><td></td></tr>
<tr><td>iii)</td><td>Existence of habitation & involvement of R&R, if any.</td><td>Project Site : No habitation at project site.

Study Area:
<table>
<tr><th>Habitation</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>Vedadri village</td><td>1.0</td><td>SSE</td></tr>
<tr><td>Jaggayyapeta Town</td><td>~9.5</td><td>NW</td></tr>
</table>
R & R : Not involved.</td><td></td></tr>
<tr><td>iv)</td><td>Latitude & Longitude of all corners of the project site.</td><td>
<table>
<tr><th rowspan="2">Pillars</th><th colspan="2">Degrees, Minutes & Seconds</th></tr>
<tr><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1.</td><td>16° 49’ 30.99"</td><td>80° 07’ 40.87"</td></tr>
<tr><td>2.</td><td>16° 49’ 29.34"</td><td>80° 07’ 41.55"</td></tr>
<tr><td>3.</td><td>16° 49’ 27.94"</td><td>80° 07’ 42.00"</td></tr>
<tr><td>4.</td><td>16° 49’ 26.97"</td><td>80°.07’ 42.07"</td></tr>
<tr><td>5.</td><td>16° 49’ 26.73"</td><td>80°.07’ 48.53"</td></tr>
<tr><td>6.</td><td>16° 49’ 29.37"</td><td>80°.07’ 49.12"</td></tr>
<tr><td>7.</td><td>16° 49’ 29.43"</td><td>80°.07’ 48.91"</td></tr>
<tr><td>8.</td><td>16° 49’ 30.99"</td><td>80°.07’ 48.81"</td></tr>
</table>
</td><td></td></tr>
<tr><td>v)</td><td>Elevation of the project site</td><td>48 ±4 m (Above Mean Sea Level)</td><td></td></tr>
</table>

<table>
<tr><th>SN.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>vi)</td><td>Involvement of forest Land, if any</td><td>No forest land involved within the project site.</td><td>The project land is not a forest land, NOC vide Forest Department letter no. Rc. No. 417 / 2023 / TO Dt. 15.03.2023.</td></tr>
<tr><td>vii)</td><td>Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area</td><td>Project Site : Not present at project site.

Study area :
<table>
<tr><th>Water body</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>Krishna River</td><td>0.9</td><td>(SW)</td></tr>
<tr><td>Paleru River (Krishna River Tributary)</td><td>2.7</td><td>WNW</td></tr>
</table></td><td>The project site is in hilly area & above HFL & do not falls under flood affected area of Krishna River – NOC from Irrigation Department, Water Resources Department Vide Lr. No. EE / SPL / VIA / DB /ITO / 225 dtd. 14.03.2023.</td></tr>
<tr><td>viii)</td><td>Existence of ESZ / ESA / National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve etc. if any within the study area</td><td>Nil.

Reserved Forest as follows :
<table>
<tr><th>Name of Forest</th><th>Distance</th><th>Direction</th></tr>
<tr><td>Jaggayyapeta - Block II RF</td><td>265 m</td><td>-</td></tr>
<tr><td>Kuntimaddi RF</td><td>2.7 km</td><td>SW</td></tr>
<tr><td>Ginjupalli R.F.</td><td>3.0 km</td><td>SW</td></tr>
<tr><td>Venkatayapalem RF</td><td>3.9 km</td><td>SW</td></tr>
<tr><td>Budavada RF</td><td>4.6 km</td><td>NW</td></tr>
</table></td><td>NOC from State Forest Department vide Forest Department letter no. Rc. No. 417 / 2023 / TO Dt. 15.03.2023.</td></tr>
</table>

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

SN.	Name of the Facility	Units	
		Configuration	Capacity
1.	**Asbestos Fiber Blending / Milling / Slurry - Assembly :** Godown - BOD - ERM - Bag Shredder - Milling Unit - DE System & Wet Washer - Fiber Cone Tank	1	72,000 TPA (AC Sheets - 57,600 TPA & NAC Sheets - 14,400 TPA)
2.	**Fly Ash & Cement (Slurry Preparation) - Assembly:**	-	
a)	Fly-ash - Silo - DE System - Slurry Tank – Storage Silos – DE System	1	
b)	Cement Silo – DE System - Cement Weigh Hopper - Screw Conveyor - Rotary Sieve	1	

SN.	Name of the Facility	Units	
		Configuration	Capacity
c)	Cement & Fly-ash Mixing Tank - Storage Tank - Dilution Tank.	1	
3.	**Sheet Formation Assembly: Assembly:** Sheet Forming Machine & Drum - Pulper – Heating Chamber - De-stacker	1	

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

SN.	Raw Material	Quantity (TPA)	Source	Distance (km)	Transportation Mode
1.	Cement (OPC)	28107	Krishna District & Nearby Areas	10 to 50	Road: Closed Containerized Trucks
2.	Fly ash	16381	Nearby Thermal Power Station (TPP)	70 to 300	-do-
3.	Asbestos fiber	5718	Imported from Russia, Brazil & China to Chennai Port	410	Sea / Road: Closed Containerized Trucks
4.	Pulp	2169	Telangana, Karnataka & Rajasthan	100 to 400	Road : Covered Trucks
8.	Silica	1805	A.P. & Rajasthan	100 to 1400	-do-
9.	Ceramic Powder	319	Telangana, A.P.	100 to 500	-do-
10.	Bentonite	106	Karnataka & Rajasthan	300 to 1400	-do-
Grand Total		**54605**			

26.9.7 The makeup water requirement for the proposed project is estimated as 96 m^3/day, The permission for drawl of groundwater water is obtained from Ground Water & Water Audit Department, Vijayawada vide Letter. No.2/IND/2022-23 dated 16.02.2023.

26.9.8 The power requirement for the proposed project is estimated as 1.4 MW, which will be obtained from the local grid of Andhra Pradesh Central Power Distribution Corporation Limited (APCPDCL).

26.9.9 The capital cost of the project is Rs. 30 Crores and the capital cost for environmental protection measures is proposed as Rs. 30 Lakhs. The employment generation from the proposed project is 135 persons.

26.9.10 It is submitted that there is no violation under EIA notification 2006/no court cases/no show cause/no direction related to the project under consideration.

26.9.11 Proposed Terms of Reference: [Baseline data collection period: October to December 2022]

Environmental Attributes	Parameters	Sampling	
		No.	**Frequency**
Study Area : 10km from Project Site Boundary **Study Period : Continuous 3 months covering 1 season (except monsoon) : Oct. 2022 – Dec. 2022.**			
A. **Air**			
a) Meteorological parameters	Wind speed & direction, temperature, Relative humidity, rainfall (Automatic Met. Stn)	**1**	Hourly recording 24hrly
b) AAQ parameters	PM_{10}, $PM_{2.5}$, SO_2, NO_2 Other parameters such as O_3, CO, NH_3, C_6H_6, As, Ni, BaP & Pb	**8**	24 hourly, twice a week, 4 weeks / month for 3 months. Locations : Considering pre-dominant winds, sensitive receptors. Other Parameters: Once / month, for 3 months.
B. Noise	Noise levels in dBA Leq day & Night time	8	Once during study period
C. Water: Surface water (SW) / Ground Water (GW)	Physico-Chemical & Bacteriological parameters GW : IS: 10500 standards & SW: CPCB Surface Water Quality Parameters	**11** 5-SW & 6-GW	Once in study period. SW: Nearby river / stream (U/S) & (D/S) & GW : U/G & D/G of project site (hydro-geological features)
D. Land: a. Soil Quality	pH, conductivity, texture, NPK, organic matter, moisture content, grain size distribution.	6	Once in study period
D. Land: b. Land Use	Land use / land cover using IRS satellite data (LISS-IV) and ArcGIS / Erdas imagine software.	Study Area	Once in study period
E. Socio-Economic	Socio-economic Characteristics	Study Area	Census 2011 & Primary Survey

Deliberation by the Committee

26.9.12 The Committee noted the following:

i. The instant proposal is for setting up of a new Asbestos & Non-Asbestos Flat Cement (AC & NAC) Sheets manufacturing Unit for production of Total 72,000 TPA Sheets (AC Sheets - 57,600 TPA & NAC Sheets - 14,400 TPA).

ii. The total area of the proposed plant is 6.7 acres or 2.712 ha (Private Land), which is under the possession of the company. As reported agricultural Land is converted for non-agricultural use, vide Competent Authority & Revenue Divisional Officer letter no. Rc. No. Lc. Rc.A.324 / JPT / 2022 Dt. 10.12.2022.

iii. The project land is not a forest land as per NOC of Forest Department vide letter no. Rc. No. 417 / 2023 / TO Dt. 15.03.2023.

iv. Vedadri Village is at a distance of 1 km in the SSE direction of the project site.

v. Krishna River is at a distance of 0.9 km in SW and Paleru River (Krishna River Tributary) at a distance of 2.7 km in WNW from the project site area. PP has reported that the project site is in hilly area & above HFL & do not falls under flood affected area of Krishna River as per the NOC obtained from Irrigation Department, Water Resources Department Vide Lr. No. EE / SPL / VIA / DB /ITO / 225 dtd. 14.03.2023.

vi. The makeup water requirement for the proposed project is estimated as 96 m^3/day. The permission for drawl of groundwater water is obtained from Ground Water & Water Audit Department, Vijayawada vide Letter. No.2/IND/2022-23 dated 16.02.2023.

Recommendations of the Committee

26.9.13 After deliberations, the Committee **recommended** the project proposal for prescribing following specific ToRs for undertaking detailed EIA and EMP study in addition to the generic ToRs enclosed at **Annexure-1** read with additional ToRs at **Annexure-2**:

(i) Vedadri Village is at a distance of 1 km in the SSE direction of the project site. Project Proponent shall prepare an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include this location in its environmental monitoring programme.

(ii) Krishna River is at a distance of 0.9 km in SW and Paleru River (Krishna River Tributary) at a distance of 2.7 km in WNW from the project site area. 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 Micro-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.

(iii) Water requirement of 96 m^3/day is proposed be met from ground water. PP shall explore the possibility for withdrawing water from the river based on cost benefit analysis to reduce dependency on ground water in a phased manner.

(iv) Detailed description of micro flora and fauna (terrestrial and aquatic) existing in the study area with special reference to rare, endemic and endangered species.

(v) Explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.

(vi) The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples.

(vii) PP shall submit action plan for rainwater harvesting system.

(viii) Action plan for 100 % solid waste utilization shall be submitted.

(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. In this context, The PP shall prepare 3 different drawings. Drawing No 1 should include a layout with Road Networking, Traffic channelization, 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.

(x) 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.

(xi) 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 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", when PP comes for EC proposal. This study shall be formulated keeping in view of India's Net-zero commitment at the COP-26 Climate Summit.

(xii) As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey (10 Kms radial coverage from the project site) 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.

(xiii) Traffic study shall be carried out inter-alia including existing road details with traffic load, proposed quantum of material to be transported by sea/rail/road with anticipated vessels/rakes/vehicles details, line source modelling and infrastructure strengthening details etc., These details shall be included in the EIA report.

(xiv) Action plan to limit the dust emission from all the stacks below 30 mg/Nm^3 shall be furnished.

(xv) A Plan of Action for disposal of e-waste must be drawn up and implemented.

(xvi) PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.

(xvii) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site shall be submitted.

***

Agenda No. 26.10

26.10 Expansion for production of 150,000 TPA of Crude Steel by M/s Satyam Smelters Private Limited (SSPL), located at Plot No. 111-143; 152-160; 354/2054; 153/2068 Ikrah, Jamuria Industrial Area, Dist-Paschim Bardhaman, West Bengal – Consideration of TOR proposal.

[Proposal No. IA/WB/IND1/410587/2022; File No. IA-J-11011/405/2021-IA-II(IND-I)]

26.10.1 M/s Satyam Smelters Private Limited (SSPL) vide its letter dated 07.04.2023 sent through email dated 07.04.2023 informed that the project mentioned above was submitted in the forms of Part A&B and Part C in the Parivesh Portal 2.0. The proposal has already received TOR earlier on 2nd October 2021 so they have mistakenly submitted the application, although they wanted to apply for EC. In view of the same, PP has requested for withdrawal of the application. Considering the same, the EAC agreed to the request of PP for withdrawing the said proposal.

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Consideration of Modification in ToR Proposal

Agenda No. 26.11

26.11 Modification of Terms of Reference titled "2 x 1000 TPD Iron ore Pellet Plant alongwith coal Gasifier of 26000 M^3/hr, 2 x 500 TPD Sponge Iron plant and 50 MW CPP (25 MW WHRB + 25 MW AFBC at Plot No.B1/4, C-2& C -4 Deoli Growth Centre MIDC Area, Taluka Deoli, District Wardha, Maharashtra by M/s SMW Ispat Private Limited- Consideration of TOR under SOP dated 07.07.2021 [Violation category].

[Proposal No. IA/MH/IND/298219/2023; File No. IA-J-11011/664/2009-IA-II(IND-I)]

26.11.1 M/s SMW Ispat Private Limited has made an application online vide proposal No:- IA/MH/IND/298219/2023, dated 31.03.2023 along with Form-3 and revised PFR and sought for amendment in Terms of Reference accorded by the Ministry vide no. J-11011/664/2009-IA.II (I) dated 16.07.2020 and subsequent transfer letter dated 26.12.2022 w.r.t. . change in project land area from 22.84 ha to 33.4934 and for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021 as PP has completed the excavation and foundation work of 2X500 TPD Rotary Kiln without obtaining Environment Clearance.

26.11.2 Name of the EIA consultant: M/s. Pollution and Ecology Control Services [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/23/2732; valid upto 09.05.2023, as on April 20, 2023].

Details submitted by Project proponent

26.11.3 M/s. Mahalaxmi TMT Pvt. Ltd. had initally applied for Terms of Reference vide proposal no. IA/MH/IND/158248/2020, dated 20.06.2020 for 2x1000 TPD Iron Ore Pellet Plant along with

Coal Gasifier of 26000 m^3/hr, 2x 500 TPD Sponge Iron Plant and 50 MW CPP (25 MW WHRB + 25 MW AFBC). Accordingly, Standard ToR was granted by the Ministry vide no. J-11011/664/2009-IA.II (I) dated 16.07.2020. Thereafter, M/s. SMW Ispat Private Limited applied for transfer of ToR dated 16.07.2020 vide Proposal No. IA/MH/IND/289129/2022 dated 18.08.2022 and accordingly the ToR was transferred by the Ministry from M/s. Mahalaxmi TMT Pvt. Ltd. to M/s. SMW Ispat Private Limited vide letter No. J-11011/664/2009-IA.II (I) dated 26.12.2022.

26.11.4 The instant proposal is for seeking amendment in ToR dated 16.07.2020 and 26.12.2022 w.r.t. . change in project land area from 22.84 ha to 33.4934 and for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021 as PP has completed the excavation and foundation work of 2X500 TPD Rotary Kiln without obtaining Environment Clearance. The changes are as follows.

Parameter	As per TOR letter no J 11011/664/2009- IA.II(I) dated 16.07.2020 and 26.12.2022	Final after proposed Amendment	Remarks
Land Details	22.84 Ha (Plot no.s B1/4, B1/2, SR- 46/2 and Survey no.:- 562, 564, 565, MIDC Deoli, District – Wardha, Maharashtra)	33.4934 ha. (Plot no.s B1/4,B1/3, B1/2, SR-46/2 and Survey no.:- 562, 564, 565, Plot no. R2&R3 MIDC Deoli, District – Wardha, Maharashtra)	SMW Ispat Pvt. Ltd. acquired one additional adjacent plot no. B1/3 in between B1/2 & B1/4 to avoid road transportation of pellet from B1/4 to B1/2. other plots no. R2 and R3 are also leased by MIDC for construction of bachelor hostel and plantation.
Greenbelt Development	7.54 ha	11.05 ha	Increased due to additional land area

26.11.5 It is reported that there is no change in plant configuration and Production capacity after amendment.

26.11.6 **Reason for Amendment:**

- As per TOR, the Pellet Plant is proposed on plot no B1/4 and SR-46, 562, 564, 565 whereas DRI plant and CPP are proposed on plot no. B1/2. Pellets from pellet plant proposed to be transported by Tarpaulin Covered Trucks to Plot no. B1/2 for DRI plant by covering 200 mt. distance.
- Plot no. B1/3 which is in between plot no. B1/2 & B1/4 is vacant plot and was under NCLT Act and in possession of SBI, Mumbai.
- To avoid the proposed Road Transportation (for transportation of Pellet) and to minimize the fugitive emission due to transportation we were trying to purchase in between plot i.e. plot no. B1/3 and finally PP purchased the plot from State Bank of India on 18.01.2023.
- In addition to this MIDC has leased out plot no. R2 & R3 (Total area 18000 sq. mt.) for construction of bachelor hostel on 500 sq.mt. Balance 1300 sq.mt area will be used for additional plantation.

26.11.7 **Violation Details:**

- As per the terms in lease agreement with MIDC, "Time Limit for commencement and completion of construction work" shall be within 02 years from the date of possession or Agreement to lease whichever is earlier. In case of non commencement of work, MIDC would cancel the leasing of the plot.
- Hence PP started and completed the excavation and foundation work only at Plot No. B/1-2. This foundation is for 2x500 TPD Rotary Kiln.
- Total cost involved for this activity is Rs. 1,75,00,000/-.

Deliberation by the Committee

26.11.8 The Committee noted the following:

i. M/s. Mahalaxmi TMT Pvt. Ltd. had initially applied for Terms of Reference vide proposal no. IA/MH/IND/158248/2020, dated 20.06.2020 for 2x1000 TPD Iron Ore Pellet Plant along with Coal Gasifier of 26000 m^3/hr, 2x 500 TPD Sponge Iron Plant and 50 MW CPP (25 MW WHRB + 25 MW AFBC). Accordingly, Standard ToR was granted by the Ministry vide no. J-11011/664/2009-IA.II (I) dated 16.07.2020. Thereafter, M/s. SMW Ispat Private Limited applied for transfer of ToR dated 16.07.2020 vide Proposal No. IA/MH/IND/289129/2022 dated 18.08.2022 and accordingly the ToR was transferred by the Ministry from M/s. Mahalaxmi TMT Pvt. Ltd. to M/s. SMW Ispat Private Limited vide letter No. J-11011/664/2009-IA.II (I) dated 26.12.2022.

ii. The instant proposal is for seeking amendment in ToR dated 16.07.2020 and 26.12.2022 w.r.t. change in project land area from 22.84 ha to 33.4934 ha as detailed in para 26.11.4 above and for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021 as PP has completed the excavation and foundation work of 2X500 TPD Rotary Kiln without obtaining Environment Clearance.

iii. PP has reported that in compliance of lease agreement with MIDC and to prevent cancelling of leasing of the plot, they started and completed the excavation and foundation work of 2X500 TPD Rotary Kiln without obtaining Environment Clearance at Plot No. B/1-2. The PP is ready to comply with All conditions mentioned in SOP dated 07.07.2021 for projects under violation category.

iv. The EAC deliberated on the proposal and is of the view that there is increase in the land area from 22.84 ha to 33.4934 ha and as reported by the PP, the Public Hearing has already been conducted for the 22.84 ha land area. In such a case Project Proponent shall have to conduct fresh public hearing for the new proposed project land area of 33.4934 ha.

v. The EAC also deliberated on the Violation reported by the project proponent and is agreed that project proponent has committed a violation by undertaking excavation and foundation work of 2X500 TPD Rotary Kiln without obtaining Environment Clearance. Therefore, the proposal shall be appraised under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021.

Recommendations of the Committee

26.11.9 After deliberations, the Committee **recommended** the proposal for amendment in ToR granted vide no. -11011/664/2009-IA.II (I) dated 16.07.2020 and transfer of TOR dated 26.12.2022 w.r.t. change in project land area from 22.84 ha to 33.4934 ha as detailed in para 26.11.4 above subject to stipulation of following additional conditions. The other terms and conditions of ToR dated 16.07.2020 and 26.12.2022 shall remain the same.

i. **Project Proponent shall have to conduct fresh public hearing for the new proposed project land area of 33.4934 ha.**
ii. PP needs to comply all the points of TOR for Violation Project and follow SOP dated 07.07.2021 issued by the Ministry of Environment, Forest & Climate Change, for identification & handling of Violation cases under EIA notification 2006.
iii. The State Government/SPCB to take action against the project proponent under the provisions of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted EC for the Unit which violated under the provision of the EIA Notification 2006 i.e. 1.4 MTPA Iron Ore Pellet Plant.
iv. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR).
v. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
vi. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter (13) in the EIA report by the accredited consultants.
vii. Budget of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage shall be completed within three years and to be prepared accordingly.
viii. The project proponent shall require to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the CPCB prior to the grant of EC as per SOP dated 07.07.2021. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
ix. Project proponent shall implement penalty provisions i.e., 1% of project cost attributable to the expansion, incurred up to the date of filing of application along with the EIA/EMP report as contained in the paragraph 12 of the Standard Operating Procedure dated 7/07/2021 shall be complied with.

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Agenda No. 26.12

26.12 Modification in TOR under violation category of proposed Expansion of an Integrated Steel Plant by M/s Amalgam Steel & Power Limited, located at Plot No. – 1165, 1148,1223,27,28,11 4, Khata No. – 114,34,9 Kandra Chowka Road, Kandra, District Saraikela, Kharsawan, West Bengal-Consideration of TOR under SOP dated 07.07.2021 [Violation category].

[Proposal No. IA/JH/IND/296887/2023; File No : IA-J-11011/899/2007-IA-II(I)]

26.12.1 M/s Amalgam Steel & Power Limited has made an application online vide proposal No:-IA/JH/IND/296887/2023, dated 19.03.2023 along with Form-3 and revised PFR and sought for amendment in Terms of Reference accorded by the Ministry vide no. J-11011/899/2007-IA.II (I) dated 08.06.2021 for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021 as PP has exceeded the production quantity as mention in earlier environment clearance and consent to operate.

26.12.2 Name of the EIA consultant: M/s. Pollution and Ecology Control Services [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/23/2732; valid upto 09.05.2023, as on April 20, 2023].

Details submitted by Project proponent

26.12.3 M/s Amalgam Steel & Power Limited had initially applied for Terms of Reference vide proposal no. IA/JH/IND/191410/2021, dated 06.06.2021 for expansion in existing Integrated Mini Steel Plant. Accordingly, Standard ToR was granted by the Ministry vide no. J-11011/899/2007-IA.II (I) dated 08.06.2021.

26.12.4 The instant proposal is for seeking amendment in ToR dated 08.06.2021 for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021 as PP has exceeded the production quantity as mention in earlier environment clearance and consent to operate.

Violation Details:

26.12.5 PP has further reported that as per the certificate issued by Chartered Accountant, the total exceeded quantity is 11,67,095 T in last 3 years. As per OM, penalty is to be paid as 0.25 % of the total turnover of exceed quantity which comes to 92.71 lakhs. In addition to this penalty, Company is ready to prepare damage assessment, Remedial plan and community augmentation plan and will follow all guideline mentioned in OM dated 07.07.2021.

26.12.6 It is reported that there is no change in plant configuration and Production capacity.

26.12.7 **Reason for Amendment:**

M/s. Amalgam Steel & Power Limited exceeded the production quantity as mentioned in earlier environment clearance and consent to operate upto 11,67,095 Tonnes in last 3 years as per the certificate issued by Chartered Accountant. Thus the proposal falls under violation and needs to

be appraised as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021.

26.12.8 Details of litigations pending against company are as under:

1. Forest department filled a case a case for forest land encroachment under section 33 of forest conservation Act
2. In the same land one more case had been filled for Bihar public Land Encroachment Act.

Deliberation by the Committee

26.12.9 The Committee noted the following:

i. M/s Amalgam Steel & Power Limited had initally applied for Terms of Reference vide proposal no. IA/JH/IND/191410/2021, dated 06.06.2021 for expansion in existing Integrated Mini Steel Plant. Accordingly, Standard ToR was granted by the Ministry vide no. J-11011/899/2007-IA.II (I) dated 08.06.2021.

ii. The instant proposal is for seeking amendment in ToR dated 08.06.2021 for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021 as PP has exceeded the production quantity as mention in earlier environment clearance and consent to operate.

iii. M/s. Amalgam Steel & Power Limited exceeded the production quantity as mentioned in earlier environment clearance and consent to operate upto 11,67,095 Tonnes in last 3 years as per the certificate issued by Chartered Accountant. Thus the proposal falls under violation and needs to be appraised as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021.

iv. As per OM, penalty is to be paid as 0.25 % of the total turnover of exceed quantity which comes to 92.71 lakhs. In addition to this penalty, Company is ready to prepare damage assessment, Remedial plan and community augmentation plan and will follow all guideline mentioned in OM dated 07.07.2021

v. The EAC also deliberated on the Violation reported by the project proponent and is agreed that project proponent has committed a violation by exceeding the production quantity as mentioned in earlier environment clearance and consent to operate. Therfore, the proposal shall be appraised under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021.

vi. The EAC also noted that following litigations are pending against company:

1. Forest department filled a case a case for forest land encroachment under section 33 of forest conservation Act
2. In the same land one more case had been filled for Bihar public Land Encroachment Act.

Recommendations of the Committee

26.12.10 After deliberations, the Committee **recommended** the proposal for amendment in ToR granted vide no. -11011/899/2007-IA.II (I) dated 08.06.2021 for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedure dated 07.07.2021 subject to stipulation of following additional conditions. The other terms and conditions of ToR dated 08.06.2021 shall remain the same.

i. The instant ToR is subject to outcome of the litigations pending against the company. PP shall abide by the outcomes of the cases.

ii. PP needs to comply all the points of TOR for Violation Project and follow SOP dated 07.07.2021 issued by the Ministry of Environment, Forest & Climate Change, for identification & handling of Violation cases under EIA notification 2006.

iii. The State Government/SPCB to take action against the project proponent under the provisions of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted EC for the Unit which violated under the provision of the EIA Notification 2006 i.e. 1.4 MTPA Iron Ore Pellet Plant.

iv. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR).

v. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.

vi. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter (13) in the EIA report by the accredited consultants.

vii. Budget of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage shall be completed within three years and to be prepared accordingly.

viii. The project proponent shall require to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the CPCB prior to the grant of EC as per SOP dated 07.07.2021. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.

ix. Project proponent shall implement penalty provisions i.e., 1% of project cost attributable to the expansion, incurred up to the date of filing of application along with the EIA/EMP report as contained in the paragraph 12 of the Standard Operating Procedure dated 7/07/2021 shall be complied with.

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DAY-3: APRIL 17, 2023 [MONDAY]

Consideration in Environmental Clearance Proposals

Agenda No. 26.13

26.13 Expansion in Existing Sponge Iron Plant (2 x 100 TPD) by addition of 350 TPD DRI Kiln, SMS Unit (1,35,000 TPA), Rolling Mill (1,20,000 TPA), Sinter Plant (90,000 TPA), Ferro Alloy Plant (2 x 9 MVA SAF and 2 x 12 MVA SAF) and Captive Power Plant (WHRB#13MW and AFBC#9 MW) by M/s M B Sponge and Power Limited, located at Village + P.S-Hijalgora, Post Office- Jamuria, District-West Bardhman, West Bengal- Consideration of Environmental Clearance.

[Proposal No. IA/WB/IND1/420182/2023; File No. IA-J-11011/310/2019-IA-II(IND-I)]
[Consultant: Grass Roots Research & Creations India (P) Ltd.; Valid upto 15.02.2024]

26.13.1 M/s. M.B. Sponge and Power Limited has made an online application vide proposal No-IA/WB/IND1/420182/2023, dated 04.04.2023 along with copy of EIA/EMP report, in prescribed format (CAF, Form – I Part A, B &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 appraised at Central Level.

26.13.2 Name of the EIA consultant: M/s. Grass Roots Research & Creations India (P) Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2124/RA 0213; Valid up to 15.02.2024, as on April 20, 2023].

Details submitted by Project proponent

26.13.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
01.10.2019	13th meeting of the EAC (Industry-I) held on 23-24th November 2019.	Terms of Reference	02.01.2020	01.01.2024
18.06.2022	10th meeting of the EAC (Industry-I) held on 1-3rd August 2022.	Amendment in TOR	30.08.2022	

26.13.4 The project of M/s M B Sponge and Power Limited located in Village+PO- Hijalgora, District-West Bardhman, West Bengal is for expansion in Existing Sponge Iron Plant (2x100 TPD DRI Kiln) by addition of 350 TPD DRI Kiln for production of Sponge Iron (Existing (60000 TPA) + Expansion (1,05,000 TPA)), MS Billets Production of 1,35,000 TPA with installation of 3 x 15 Ton IF, Rolling Mill of 1,20,000 TPA, Sinter Plant of 90,000 TPA, Ferro Alloy Plant for production of Fe-Mn (89,481 TPA) or Si-Mn (38,989 TPA)or Fe-Si (71,820 TPA)with 2x9

MVA and 2 x 12 MVA submerged Arc furnace and 22 MW Captive Power Plant {WHRB#13MW (2 x 10 TPH and 1 x 40 TPH) and AFBC#9 MW (1 X 40 TPH).

26.13.5 The proposal was reconsidered during 26th meeting of the EAC for Industry-I sector held on 12th, 13th and 17th April, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

26.13.6 The Committee noted the following:

1. The PP/Consultant presented the drone survey video before the Committee and EAC observed that housekeeping of the existing plant is very poor. The EAC suggested to improve the housekeeping of the plant area. PP shall submit the housekeeping plan along with the photographs in this regard. PP shall also prepare and present a fresh drone survey after the improved housekeeping.
2. The EAC noted that the existing project is operational based on the Consent to establish obtained from SPCB vide letter no. NO-28813 dated 06.01.2006. The EAC is of the opinion that PP/Consultant shall submit credible documents along with CA certificate certifying that the existing project cost was less to be covered under EIA Notification, 1994 and did not require EC under the provisions of EIA Notification, 1994.
3. PP needs to submit an undertaking by way of affidavit that they have not made any violation pertaining to expansion or production after obtaining CTE.
4. The EAC noted that as reported existing greenbelt is developed in 1.12 ha which is about 33 percent of total existing project area i.e. 3.36 ha with total 2800 No's trees. Proposed greenbelt will be developed in 4.8 ha which is about 39.05% of the expansion project area .i.e. 12.29 ha. Thus total of 5.92 ha area (37.82% of total project area) will be developed as greenbelt after expansion. Total no. of 12000 trees will be planted for expansion project. The EAC opined that PP shall submit a revised greenbelt development plan along with the undertaking by way of affidavit that they will complete the remaining greenbelt in the coming monsoon.
5. The EAC noted that the water requirement for the proposed expansion project is estimated 1447 m^3/day, which will be sourced from Asansol Municipal Corporation. Application for additional water supply has been submitted to Asansol Municipal corporation dated 03.08.2022. In view of the same, the EAC advised PP to submit the desired water permission from the Competent Authority for further consideration of the project.
6. The Committee deliberated on the public hearing issues along with 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 Committee deliberated on the baseline data and observed that the PM_{10}, $PM_{2.5}$ and noise levels recorded are way too high. PP shall submit the justification along with the mitigation measures that will be undertaken to minimise the same.

8. The PP shall prepare a Village Adoption program consisting of need - based community development activities and submit an undertaking for adoption of villages including the name of villages.

9. 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.

10. There is no proper Engineering drawing of a layout. It 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.

11. In view of above, the PP requested the Committee to allow to reappear with the revised information/ clarification to the points deliberated during appraisal.

Recommendations of the Committee

26.13.7 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** due to certain deficiencies in the proposal and sought requisite information on the points referred at para no. 26.13.6 above. The proposal shall be considered after submission of requisite information and updating the Report on Parivesh Portal.

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Agenda No. 26.14

26.14 Expansion of Integrated Steel Plant from 0.96 MTPA to 2.1 MTPA by M/s. BMM Ispat Limited, located at Villages- Danapura, Danayakanakere, Nagalapura, Byalakundi and Garga, Tehsil - Hosapete, District–Vijayanagara (Earlier Ballari), Karnataka - Consideration of Environmental Clearance.

[Proposal No. IA/KA/IND1/417501/2023; File No. F.No.J-11011/236/2008-IA.II (I)]
[Consultant: Pragathi Labs & Consultants Pvt. Ltd., Valid upto 29.10.2024]

26.14.1 M/s. BMM Ispat Limited has made an online application vide proposal no. IA/KA/IND1/417501/2023 dated 05.04.2023 along with copy of EIA/EMP report, in prescribed format (CAF, Form – I Part A, B &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), 2(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.

26.14.2 Name of the EIA consultant: M/s. Pragathi Labs & Consultants Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2124/RA 0237; Valid up to 29.10.2024, as on April 20, 2023].

Details submitted by Project proponent

26.14.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
02.11.2021	Standard Terms of Reference issued	Terms of Reference	05.11.2021	04.11.2025

26.14.4 The project of M/s. BMM Ispat Limited located in Danapura, Danayakanakere, Nagalapura, Byalakundi and Garaga villages, Hosapete taluk, Vijayanagara (Ballari) district, Karnataka is for expansion of Integrated Steel Plant from 0.96 MTPA to 2.1 MTPA and captive power plant from 235 MW to 345 MW and 1.4 MTPA cement plant.

26.14.5 The proposal was reconsidered during 26th meeting of the EAC for Industry-I sector held on 12th, 13th and 17th April, 2023. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

26.14.6 The Committee noted the following:

1. The Committee deliberated on the public hearing issues along with 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.
2. The EAC also deliberated on the PH issues raised during the earlier EC and is of the view that PP shall submit the status of implementation of the action plan of the commitment made by the PP during the existing ECs in tabular form.
3. The Committee deliberated on the baseline data and observed that incremental GLC of CO has not been provided. The EAC if the view that the GLC values for all the parameters shall be revalidated and shall be submitted.
4. The EAC deliberated on the greenbelt development plan and is of the view that maximum greenbelt shall be achieved in the coming monsson. In this regard, PP shall submit a revised greenbelt development plan along with the undertaking by way of affidavit that they will achieve maximum plantation in the coming monsoon.

5. The EAC noted that there are number of litigations against the project. PP shall submit an updated status of each of the cases and shall submit an undertaking by way of affidavit that they will abide by the outcome of the cases.

6. Danayanakankere Lake is adjacent to project site whereas there are number of ponds nearby the project site. The EAC is of the opinion that 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.

7. The PP shall prepare a Village Adoption program consisting of need - based community development activities and submit an undertaking for adoption of villages including the name of villages.

8. There is no proper Engineering drawing of a layout. It 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.

9. In view of above, the PP requested the Committee to allow to reappear with the revised information/ clarification to the points deliberated during appraisal.

Recommendations of the Committee

26.14.7 In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** due to certain deficiencies in the proposal and sought requisite information on the points referred at para no. 26.14.6 above. The proposal shall be considered after submission of requisite information and updating the Report on Parivesh Portal.

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Consideration of Proposal before the EAC as per the Order of Hon'ble NGT dated 20.03.2023 in the matter of Appeal No. 21 of 2022/EZ [I.A. No. 167/2022/EZ] and Others titled Prafulla Samantray Vs. Union of India & Ors. regarding

Agenda No. 26.15

26.15 Setting up of a Greenfield Integrated Steel Plant of capacity 13.2 MTPA Crude Steel with 10 MTPA Cement grinding unit & 900 MW Captive Power Plant by M/s. JSW Utkal Steel Limited, located at Polanga, BayanalaKandha, Gobindapur, Dhinkia, Nuagaon and Jatadhara villages, Ersama Tehsil, Jagatsinghpur District, Odisha.

Proposal is placed before the EAC as per the Order of Hon'ble NGT dated 20.03.2023 in the matter of Appeal No. 21 of 2022/EZ [I.A. No. 167/2022/EZ] and Others titled Prafulla Samantray Vs. Union of India & Ors. regarding

[Proposal No. IA/OR/IND/74396/2018; File No. J-11011/524/2017-IA.II (I)]

26.15.1 M/s. JSW Utkal Steel Limited [JSW USL] had made online application along with copy of common EIA report and Form – 2 seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposal was initially considered by the EAC in its meeting held during 18-19 May 2021, 13-14 September 2021. Further, the EC application was considered by the EAC held during 52nd EAC (Industry-1) held on 27th, 28th and 31st January, 2022 and reconsidered during 53rd meeting of the Re-constituted EAC (Industry-I) held on 10 -11th February, 2022 wherein the following experts from EAC – Infra 1 sector were co-opted by the Industry 1 sector for appraising the common EIA report: (i) Dr. Manoranjan Hota, Member, EAC (Infra 1 Sector); and (ii) Dr. Sukumaran Jeyakrishanan, Member, (EAC – Infra 1 Sector).

26.15.2 Based on the deliberations held, the EAC recommended the proposal for grant of Environment Clearance under provision of EIA Notification, 2006 subject to the stipulation of 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. Accordingly, the Environment Clearance was granted by the Ministry vide letter No. J-11011/524/2017-IA.II (I) dated 11.04.2022 for setting up of a Greenfield Integrated Steel Plant of capacity 13.2 MTPA crude steel with 10 MTPA Cement grinding unit & 900 MW Captive Plant Near Paradeep Jagatsinghpur district, Odisha by M/s. JSW Utkal Steel Limited.

26.15.3 The project being interlinked with the setting up of an "All- weather, Multi cargo Greenfield Captive Jetty (ies) of handling capacity of 52 MTPA at Jatadhari Muhan River, district Jagatsinghtpur, Orissa", for which the Environment Clearance was granted by the Ministry of Environment, Forest and Climate Change vide letter dated 12.04.2022 to the Project Proponent (M/s. JSW Utkal Steel Limited).

26.15.4 Appeals vide 21-22 of 2022 titled Prafulla Samantray Vs. Union of India & Ors. was filed before the Hon'ble National Green Tribunal (Eastern Zone), challenging the EC granted dated 11.04.2022 by the Ministry. The Environment Clearance for setting up of the ISP and Cement grinding unit was challenged in Appeal No. 21/2022 and the Environment Clearance dated 12.04.2022 for setting up the Captive jetty was challenged in Appeal No. 22/2022 before the same Bench.

26.15.5 Both the appeals were connected and were heard together at length during the proceedings. However, the Hon'ble NGT, vide its final order and judgment dated 20.03.2023 has allowed the Appeals and suspended the Environment Clearance granted for both the projects. Accordingly, Hon'ble NGT has remitted the matter to the MoEF&CC for fresh appraisal and decision by MoEF&CC in the light of observations made in the judgement. The issues highlighted by the Hon'ble NGT are as follows:

a. Cumulative EIA saw the light of the day for the first time after the public hearing
b. Permissibility of sourcing water from Mahanadi when drinking water is scarce has not been duly evaluated. The observation with regard to scarcity of water can be seen in the minutes of the meeting dated 18.05.2021. The recommendation accepting the contra stand of the PP is not based on independent evaluation.
c. Jetty is located within 500 meters of the Paradeep Port which is unnecessary as opined in the report submitted by Ms. Meena Gupta earlier.
d. Paradeep is polluted industrial area.
e. The SIA has been conducted later and was not part of public hearing.
f. The project by Posco was abandoned and was adversely commented upon by this Tribunal vide order dated 30.03.2012 in Appeal No. 08/2011 which aspect has not been examined.
g. Conditions stipulated in the EC granted to POSCO will have to be considered, in case ECs are to be granted.

26.15.6 In compliance to the order of the Hon'ble NGT dated 20.03.2023, the aforesaid project along with the observations and directions of the Hon'ble NGT, was placed before the Expert Appraisal Committee (EAC) of Industry- 1 sector during its 26th meeting held on 17th April 2023. Also, following experts from EAC (Infra 1 sector) were co-opted by the Industry 1 sector for appraisal of the project:

i. Dr. Manoranjan Hota, Member, EAC – Infra 1
ii. Dr. Sukumaran Jeyakrishanan, Member, EAC – Infra 1

Deliberations by the Committee

26.15.7 The Project proponent has attended the EAC meeting and informed the EAC that after the judgement of Hon'ble NGT, the activities are stopped and there are no activities at the project site.

26.15.8 The Committee deliberated on the directions issued by the Hon'ble NGT along with its concerned issues and accordingly, the opinions of the member present during the meeting were deliberated along with the representation of the Project Proponent on the said points.

26.15.9 The Committee is of the view that the concerns raised by Hon'ble NGT needs to be addressed more intensely and systematically and Environment Clearance dated 11.04.2022 needs to be revisited. For the same, it is imperative to constitute a Working Group under EAC (Industry-1 Sector).

Recommendations of the Committee:

26.15.10 In view of the foregoing and after detailed deliberations, the EAC decided to constitute a Working Group under EAC (Industry-1 Sector) to look into the aspects of the observations made by the Hon'ble NGT comprising of following members:

i. Dr. Jai Krishna Pandey, EAC Member (Industry 1 Sector)
ii. Dr. S. Ranganathan, EAC Member (Industry 1 Sector)
iii. Dr. E V R Raju, EAC Member (Industry 1 Sector)
iv. Dr. Hemant Sahasrabuddhe, EAC Member (Industry 1 Sector)
v. Representative of MoEF&CC-For assisting the Working Group

The EAC is of the view that the Working Group shall:

1. Examine all the necessary documents pertaining to the project in the light of the observation of Hon'ble NGT order dated 20.03.2023.
2. The Working Group shall also look into the reports and issues deliberated during the previous appraisal of the project based on which the instant proposal was recommended for grant of EC.
3. The Working Group shall also take into consideration the representations made by the Project Proponent and shall be called upon for any clarification required in the matter.
4. The report of the Working Group shall be submitted at the earliest for further consideration of the EAC (Industry -1 Sector).

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Consideration of proposal w.r.t. Correction in 25th Minutes of EAC meeting

Agenda No. 26.16

26.16 Expansion of Iron Ore Pelletization from 7.0 MTPA to 11.0 MTPA in existing plant area of 110 acre located at Survey No. 15A, Kancharapalem, Near Flyover, Scindia Road, Vishakhapatnam Urban, Vishakhapatnam district, Andhra Pradesh by M/s Arcelor Mittal Nippon Steel India Limited (Formerly Essar Steel India Limited)– Consideration of Consideration (correction in Minutes).

[Proposal No. IA/AP/IND1/417707/2023; File No. IA-J-11011/131/2022-IA-II(IND-I)]
[Consultant: Team Labs and Consultants; Valid upto: 24.09.2024]

26.16.1 M/s Arcelor Mittal Nippon Steel India Limited (Formerly Essar Steel India Limited) vide its letter dated 17.04.2023 sent through email dated 17.04.2023 has requested for withdrawal of their application dated 03.04.2023 w.r.t. the minor corrections in 25th EAC MoM. Considering the same, the EAC agreed to the request of PP for withdrawing the said application for correction in MoM of 25th EAC meeting held on 21st - 23rd March, 2023.

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Any Other item with permission of Chair

Consideration of proposal w.r.t. Correction in 25th Minutes of EAC meeting

Agenda No. 26.17

26.17 Setting of Integrated Steel Plant for production of 7.0 MTPA Liquid Steel by M/s ArcelorMittal Nippon Steel India – located at Paradeep Facility at, Jagatsinghpur District, Odisha – Consideration of TOR (correction in Minutes).

[Proposal No. IA/OR/IND1/416399/2023; File No. IA-J-11011/43/2023-IA-II(IND-I)]
[Consultant: MECON LIMITED; Valid upto: 02.09.2024]

26.17.1 The aforementioned proposal was considered and recommended by EAC in its 25th meeting of the EAC for Industry-I sector held on 21st - 23rd March, 2023. The PP vide email dated 17.04.2023 requested for correction in the Minutes of Meeting of 25th EAC, detailed as below:

MoM ref point no.	Details given in MoM of 25th EAC Meeting dated 21st - 23rd March, 2023 (Agenda No. 25.2)	Changes Requested/Suggested	Remarks/ Justification
Page No. 66 Para 25.2.15	As reported to elevate the project site to +4.5m above MSL to avoid flooding, PP shall include the	As reported to elevate the project site to +4.5m above MSL to avoid flooding, PP shall include the	As informed during EAC meeting,

MoM ref point no.	Details given in MoM of 25th EAC Meeting dated 21st - 23rd March, 2023 (Agenda No. 25.2)	Changes Requested/Suggested	Remarks/ Justification
Specific Condition (Point iv)	complete action plan with techno-economics along with all the necessary permissions required in the EIA/EMP report. **The PP should avoid using river sand for this purpose.** PP may explore the use of other material for raising the height.	complete action plan with techno-economics along with all the necessary permissions required in the EIA/EMP report. **The PP should try to avoid using of river sand for this purpose.**	- Dept of Water Resources, Govt of Odisha (DoWR, GoO) has assigned **National Institute of Ocean Technology (NIOT), Chennai** for **survey & behavioural study of River Mahanadi** as part of their flood control action plan. - Based on the study, GoO will arrange the necessary desilting /dredging in the estuary area. - To **avoid the transportation risk & vehicular pollution issues**, GoO is proposed to dispose of this dredged soil in the nearby area for suitable usage and accordingly, they are asking us to use it. - This will **reduce the environmental impact** due to transportation as well as we require good quality soil/filling material for **33% greenbelt area** in the proposed ISP area. Hence, PP has requested to revise the condition. **Simultaneously, PP is engaging reputed academic institutes (NIT/IIT) to carry out a comprehensive study on the types of material suitable for landfilling along with the consideration of environmental aspects.**
Page No. 67 Para 25.2.15 Specific Condition (Point x)	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 included in the EIA/EMP report. Greenbelt shall be planned in 40% of the project area. **As committed, 33% shall be completed in the upcoming Monsoon Season of 2023.** Allocation for socio economic development of nearby villages shall be 1.5 times of the normal calculated amount.	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 included in the EIA/EMP report. Greenbelt shall be planned in 40% of the project area. **The PP shall prepare and present the action plan for the greenbelt development in the EIA report. Also, the maximum greenbelt shall be covered within one year from the date of issuance of Environment Clearance.** Allocation for socio-economic development of nearby villages shall be 1.5 times of the normal calculated amount.	This is the TOR specific recommendation. Hence, PP has requested to revise the condition. **PP will prepare and present the Greenbelt action plan in the EIA report. Also, PP commits to complete the maximum greenbelt development within one year from the date of issuance of Environment Clearance.**

Deliberations by the EAC:

26.17.2 The Committee deliberated on the request of PP w.r.t. modifications in the MoM of 25th EAC for Industry-I sector held during 21st – 23rd March, 2023 pertaining to proposal agenda no. 25.2 as referred above.

Recommendation of EAC:

26.17.3 The EAC deliberated and noted that the request of the PP may be accepted and recommended for the incorporation of the above-mentioned corrections/modifications in the minutes of the meeting. Accordingly, aforementioned para 25.2.15 (Point iv) and 25.2.15 (Point x) stands modified in the minutes of 25th EAC (Industry-1) meeting as detailed in table above.

The meeting ended with thanks to the Chair.

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ANNEXURE –1

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 consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with QCI/NABET/NABL accreditation certificate detail.

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 • 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	• IS 5182 Part 1-20 • Site specific primary data is essential • Secondary data from IMD, New Delhi • CPCB guidelines to be considered.
Pollutants • $PM_{2.5}$	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	• Sampling as per CPCB guidelines • Collection of AAQ data (except in monsoon season) • Locations of various stations for different
• PM_{10}			
• SO_2			
• NOx			
• CO			
• HC			

Attributes	Sampling		Remarks
	Network	Frequency	
• Other parameters relevant to the project and topography of the area			parameters should be related to the characteristic properties of the parameters. • The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests, • Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAAQM Notification of 16/11/2009 along with min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
B. Noise			
• Hourly equivalent noise levels	At least 8-12 locations	As per CPCB norms	-
C. Water			

Attributes	Sampling		Remarks
	Network	Frequency	
Parameters for water quality • 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: • 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 • Total Carbon • pH • Dissolved Oxygen • Biological Oxygen Demand • Free NH4 • Boron • Sodium Absorption Ratio • Electrical Conductivity • TDS	• Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies	• Yield of water sources to be measured during critical season • Standard methodology for collection of surface water (BIS standards)	
For Ground Water	• Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and shall be included.		
D. Traffic Study			
• Type of vehicles • Frequency of vehicles for transportation of materials	-		

Attributes	Sampling		Remarks
	Network	Frequency	
• Additional traffic due to proposed project • Parking arrangement			
E. Land Environment			
Soil • 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 • Location code • Total project area • Topography • Drainage (natural) • Cultivated, forest, plantations, water bodies, roads and settlements	-		
E. Biological Environment			
Aquatic • Primary productivity • Aquatic weeds • Enumeration of phyto plankton, zoo plankton and benthos • Fisheries • Diversity indices • Trophic levels • Rare and endangered species • Marine Parks/ Sanctuaries/ closed	• Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. • Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. • For forest studies, direction of wind should be considered while selecting forests.		

Attributes	Sampling		Remarks
	Network	Frequency	
areas /coastal regulation zone (CRZ) **Terrestrial** • 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	• Secondary data to collect from Government offices, NGOs, published literature.		
F. Socio-economic			
• Demographic structure • Infrastructure resource base • Economic resource base • Health status: Morbidity pattern • Cultural and aesthetic attributes • Education	• 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**	**1st**	**2nd**	**3rd**	

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.

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ANNEXURE-2

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 (PM_{10} and $P_{2.5}$) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM_{10} to be carried over.

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 (PM_{10} 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 PM_{10} 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 (PM_{10} and $P_{2.5}$) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM_{10} to be carried over.

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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 P2.5) 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.

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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 is acquisition, nearby (in 2/3 km.) water body, population, with in 10km other industries, forest, eco/sensitive zones, accessibility, (note – in case of industrial estate this information may not be necessary)
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

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ANNEXURE-3

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

S. No.	Name	Position	12.04.2023	13.04.2023	17.04.2023
1.	Shri Rajive Kumar	Chairman	***Present***	***Present***	***Present***
2.	Dr. Dipankar Shome	Vice Chairman	***Present***	***Present***	***Present***
3.	Dr. S. Ranganathan	Member	***Present***	***Present***	***Present***
4.	Dr. Ranjit Prasad	Member	***Present***	***Present***	***Present***
5.	Dr. S. K. Singh	Member	***Present***	***Present***	***Present***
6.	Dr. Tejaswini Ananthkumar	Member	***Absent***	***Absent***	***Absent***
7.	Dr. Hemant Sahasrabuddhe	Member	***Present***	***Present***	***Present***
8.	Dr. Jai Krishna Pandey	Member	***Present***	***Present***	***Present***
9.	Dr. E V R Raju	Member	***Present***	***Present***	***Present***
10.	Dr. S K Chaturvedi, (Actg. DG), (Representatives of NCCBM)	Member	***Present***	***Present***	***Present***
11.	Shri Nazimuddin, Scientist 'F' (Representative of CPCB)	Member	***Present***	***Present***	***Present***
12.	Dr. S. Raghavan, Scientist 'D' (Representative of National Institute of Occupational Health (NIOH)	Member	***Absent***	***Absent***	***Absent***
13.	Dr. Sanjay Bist, Scientist 'E' (Representative of Indian Meteorological Department)	Member	***Present***	***Present***	***Present***
14.	Dr. R.B. Lal, Scientist F, MoEFCC	Member Secretary	***Present***	***Present***	***Present***
MoEFCC					
15.	Dr R P Rastogi	Scientist C	***Present***	***Present***	***Present***
16.	Dr Sandeepan BS	Scientist B	***Present***	***Present***	***Present***

ANNEXURE-4

Approval of EAC Chairman

Email — Additional Director MoEFCC Dr R B LAL

From : chairman eac ind 1 <chairman.eac.ind.1@gmail.com> — Mon, Apr 17, 2023 09:23 PM

Subject : Re: Draft minutes of the 26th EAC Meeting [Part Minutes] held on April 17, 2023 w.r.t. Setting up of a Greenfield Integrated Steel Plant of capacity 13.2 MTPA Crude Steel with 10 MTPA Cement grinding unit & 900 MW Captive Power Plant by **M/s. JSW Utkal Steel Limited, located at Polanga, BayanalaKandha, Gobindapur, Dhinkia, Nuagaon and Jatadhara villages, Ersama Tehsil, Jagatsinghpur District, Odisha.** This instant Proposal is placed before the EAC as per the Order of Hon'ble NGT dated 20.03.2023 in the matter of Appeal No. 21 of 2022/EZ [I.A. No. 167/2022/EZ] and Others titled Prafulla Samantray Vs. Union of India & Ors.

To : Additional Director MoEFCC Dr R B LAL <rb.lal@nic.in>

Cc : rajivekumar1983@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>, 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 draft minutes(part) are approved.
Best wishes
Rajive Kumar

***

ANNEXURE-5

Approval of EAC Chairman

Email **Additional Director MoEFCC Dr R B LAL**

Re: Compiled Draft minutes of the 26th EAC Meeting held on April 12, 13, 17, 2023 for approval of the Chairman-Regarding

From : rajivekumar1983@gmail.com — Tue, Apr 25, 2023 05:42 PM

Subject : Re: Compiled Draft minutes of the 26th EAC Meeting held on April 12, 13, 17, 2023 for approval of the Chairman-Regarding

To : Additional Director MoEFCC 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>, 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>, RAJESH PRASAD RASTOGI <rp.rastogi@gov.in>, sandeepan <sandeepan.bs@gov.in>

Dear Dr. Lal,
The minutes are approved.
Kindly do the needful.

Best wishes
Rajive Kumar, Retd. IFS
Chairman- EAC-Industry-1

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