



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

To,

The -1

SHREE DWARIKESH ECOTEX PRIVATE LIMITED

Plot No. C13,C15,C16, Kandra Industrial Area, Village-Bhitia, Block-  
Govindpur, P.S.- Govindpur, District- Dhanbad, Jharkhand, Pin 828109 -  
828109

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the SEIAA vide proposal number  
SIA/JH/IND1/448804/2023 dated 15 Oct 2023. The particulars of the environmental  
clearance granted to the project are as below.

- EC Identification No.** EC23B008JH110618
- File No.** EC/SEIAA/2023-24/2784/2023
- Project Type** Expansion
- Category** B
- Project/Activity including  
Schedule No.** 3(a) Metallurgical industries (ferrous &  
non ferrous)
- Name of Project** Enhancement of MS Billet production  
from 27,000 TPA to 148,500 TPA through  
3x15T Induction Furnaces (by replacing  
existing 1x9T Furnace with 1x15T &  
installing additional 2x15 T Furnaces  
along with CCM-1x2strand, 4/7 radius),  
and production of 145,500 TPA TMT Bars  
& Rolled Products by installing Rolling  
Mills of 1x25 TPH Capacity and reheating  
furnace of 30 TPH (emergency use) at  
Plot No C-13, C-15 & C-16, Village-  
Kansitanr, Thana No. 124, Thana-  
Govindpur, P.S.-Govindpur, District -  
Dhanbad,
- Name of Company/Organization** SHREE DWARIKESH ECOTEX  
PRIVATE LIMITED
- Location of Project** JHARKHAND
- TOR Date** N/A

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 30/11/2023

(e-signed)  
Ashok Kumar, IFS  
Member Secretary  
SEIAA - (JHARKHAND)

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*





**State Level Environment Impact Assessment Authority, Jharkhand.**

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi, Jharkhand-834 004.

E-mail: [msseiaa.jhk@gmail.com](mailto:msseiaa.jhk@gmail.com)/[chr-seiaajhr/a.gov.in](mailto:chr-seiaajhr@a.gov.in)

website: [www.jseiaa.org](http://www.jseiaa.org)

Letter No.- EC/SEIAA/2022-23/2784/2023/

Ranchi, Date:

To: M/s Shree Dwarikesh Ecotex Pvt. Ltd.,  
Shri Harshal Singh (Director),  
Panch Mahuli, Kumardhubi,  
District - Dhanbad, Jharkhand : 828203.

**Sub.:** Environmental Clearance for the project “Enhancement of MS Billet production from 27,000 TPA to 148500 TPA through 3x15 T Induction Furnaces (by replacing existing 1x9 T Furnace with 1x15 T & installing additional 2x15 T Furnaces along with CCM-1x2 strand, 4/7 radius) , and production of 145500 TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25 TPH capacity and reheating furnace of 30 TPH (emergency use) by M/s Shree Dwarikesh Ecotex Private Limited at Kandra Industrial Area, Village : Bhitia, Mouza : Kansitanr, Thana no. : 124, Thana :Govindpur, P.S. : Govindpur, Distt. : Dhanbad, Jharkhand” (Proposal No. : SIA/JH/IND1/448804/2023) – regarding.

**Ref:** Your application no. Nil, dated - 15.10.2023.

Sir,

It is in reference to the project “Enhancement of MS Billet production from 27,000 TPA to 148500 TPA through 3x15 T Induction Furnaces (by replacing existing 1x9 T Furnace with 1x15 T & installing additional 2x15 T Furnaces along with CCM-1x2 strand, 4/7 radius) , and production of 145500 TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25 TPH capacity and reheating furnace of 30 TPH (emergency use) by M/s Shree Dwarikesh Ecotex Private Limited at Kandra Industrial Area, Village : Bhitia, Mouza : Kansitanr, Thana no. : 124, Thana :Govindpur, P.S. : Govindpur, Distt. : Dhanbad, Jharkhand”. submitted by you for seeking prior Environmental Clearances (EC).

This is an expansion project which has been taken for appraisal on 17.10.2023.

**Project Category :** B1 – The State Expert Appraisal Committee, Jharkhand deliberated the project during its 102<sup>nd</sup> meeting held on 21 - 25.03.2023 and SEIAA, Jharkhand has approved the ToRs in 103<sup>rd</sup> meeting held on 01<sup>st</sup> & 02<sup>nd</sup> April, 2023. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2022-23/2784/2023/25, dated 12.04.2023. The final EIA / EMP submitted by PP to SEIAA on 15.10.2023 and which was forwarded to SEAC on 16.10.2023.

This is an expansion and enhancement proposal within the existing plant premises of 2.435 ha. The project of M/s Shree Dwarikesh Ecotex Private Limited is located at Kandra

M

S

Industrial Area, Village- Bhitia, Mauza – Kansitanr, Thana No. 124, P.S.-Govindpur, District -Dhanbad, Jharkhand.

The proposal is for Enhancement of MS Ingot/Billet production from 27,000 TPA to 148,500 TPA through 3 x 15T Induction Furnaces (by replacing existing 1 x 9 T Furnace with 1 x 15T & installing additional 2 x 15 T Furnaces along with CCM 1 x 2 strand, 4/7 radius), and production of 145,500 TPA TMT Bars & Rolled Products by installing Rolling Mills of 1 x 25 TPH Capacity and reheating furnace of 30 TPH (emergency use).

**Land Details:**

Khata No.	Plot No.
23	74 (P), 70 (P)
22	90, 91
18	88, 93 (P)
19	87 (P), 92, 94 (P), 95 (P)
04	89, 108 (P)

**Environmental Settings of the Site:**

S. No.	Particulars	Details	Remarks
1	Total Land	2.435 ha	Industrial Land
2	Land Acquisition Details	Land Leased from BIADA (Now JIADA): 1.82 ha. (4.497 Acre) Land purchased: 0.615 ha (1.52 Acre)	JIADA lease for 99 Years Plantation land is registered in name of company
3	Existence of habitation & involvement of R&R, if any	No habitation is present within the project area.	R&R not applicable
4	Latitude and longitude of all corners of the project site	The project lies in between latitude 23°50'53.34"N to 23°50'57.24"N 86°28'34.10"E to 86°28'39.84"E	
5	Elevation of the project site	241 m to 242 m above mean sea level	
6	Involvement of forest land if any	No forest land is involved in the project	
7	Water body (River, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project	<b>Project Site:</b> RWH Structure in the northeast of the project site <b>Study Area:</b> Khudai Nadi is at 0.90 km in NW direction	

	site as well as study area	Although there are several minor ponds, no major ponds/reservoirs are present in the study area	
8	Existence of ESZ/ESA/National Park/Wildlife Sanctuary/Biosphere Reserve/Tiger Reserve/Elephant Reserve etc. if any within the study area	<b>Project located outside ESZ</b> <b>List of RF and PF:</b> Dhangi RF at 2.40 km SE	

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

#	Plant Equipment /Facilities	Existing facilities		As per CTO dated 09.06.2022		Proposed Units		Final (Existing + Proposed)	
		Config.	Cap.	Config.	Cap.	Config.	Cap.	Config.	Cap.
1	Induction Furnace	1 x 9 T (will be replaced)	27,000 TPA	1 x 9 T (will be replaced by 1x15 T)	27,000 TPA	1 x 15 T (replacing existing) 2 x 15 T	1,48,500 TPA	3 x 15 T	M.S. Billets 1,48,500 TPA
	CCM	-	-	-	-	1x2 Strand Rad. 4/7 m		1x2 Strand Rad. 4/7 m	
2	Rolling Mill	-	-	-	-	1 x 25 TPH	1,45,500 TPA	1 x 25 TPH	TMT Bars & Rolled Products 1,45,500 TPA
3	Re-heating Furnace (for emergency)	-	-	-	-	1 x 30 TPH	99,000 TPA	1 x 30 TPH	99,000 TPA

*ms*

*3*

*1*

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

#	Raw Material/Fuel	Quantity required per annum			Unit	Source	Mode of Transport	Distance from project Site (km)	Linkage
		Existing	Expansion	Total					
<b>Induction Furnace 1,48,500 TPA</b>									
1.	Sponge Iron	2,160	1,16,640	1,18,800	TPA	Sponge iron plant	Road	30	Open market
2.	Pig Iron	810	43,740	44,550	TPA	In-house	Road	20	Open market
3.	Scrap	405	21,870	22,275	TPA	Local market	Road	45	Open market & in-house
4.	Ferro Alloys (SiMn/FeSi)	5.4	292	297	TPA	Local market	Road	40	Open market
<b>Rolling Mill 1,45,500 TPA</b>									
5.	Billet	-	1,48,500	1,48,500	TPA	Induction furnace	Hot charging	Within plant	-
<b>Re-Heating Furnace 90,000 TPA</b>									
6.	Coal or FO	-	11,088	11,088	TPA	Local market	Road	30	Open market
		-	3,300	3,300	KL	IOCL	Road	60	

The makeup water requirement for the proposed expansion is estimated as 148 KLD which will be sourced through groundwater. Total makeup water requirement at final stage after expansion will be 190 KLD.

Industrial wastewater will be about 12 KLD which will be treated in ETP approx. Domestic wastewater generated is envisaged as 10 KLD. It will be sent to soak pit.

The power requirement for the proposed expansion is envisaged as 22 MVA, which will be obtained from DVC.

*Handwritten mark*

*Handwritten signature*

*Handwritten mark*

Baseline Environmental Status

<b>Period</b>	March to May 2023
<b>Air Environment</b>	PM10 – 51.3 to 72.8 µg/m <sup>3</sup> , PM2.5 – 28.6 to 52.3 µg/m <sup>3</sup> . SO <sub>2</sub> – 10.6 to 22.9 µg/m <sup>3</sup> , NO <sub>x</sub> – 17.1 to 36.1 µg/m <sup>3</sup> . CO – 0.5 to 1.14 mg/m <sup>3</sup>
<b>AAQ Modelling max. Incremental GLCs (with control measures)</b>	PM10 – 1.53 µg/m <sup>3</sup> at 890 m SSE PM2.5 – 0.818 µg/m <sup>3</sup> at 1.29 km SSE SO <sub>2</sub> – 6.13 µg/m <sup>3</sup> at 1.35 km SSE NO <sub>x</sub> – 19.9 µg/m <sup>3</sup> at 1.11 km SSE (SO <sub>2</sub> & NO <sub>x</sub> values are of operation of Re-heating furnace with FO/Coal)
<b>Groundwater Quality</b>	pH – 7.52 to 7.85, Chloride – 91.8 to 112.1 mg/l, Total Hardness 230.7 to 342.09 mg/l, TDS – 402 to 456 mg/l
<b>Surface Water Quality</b>	pH – 7.54 to 7.90, DO – 5.4 to 6.9 mg/l, BOD – 6 to 41 mg/l
<b>Noise Environment</b>	Daytime: 41.2 to 73.2 dB(A) Nighttime: 34.2 to 68.2 dB(A)
<b>Soil Environment</b>	pH – 7.22 to 7.49, Conductivity – 0.242 to 0.608 mS, Potassium – 126.11 to 184.27 mg/kg, Nitrogen – 138.11 to 206.11 mg/kg, Phosphorus – 17.43 to 31.66 mg/kg

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

Facility	Waste	Quantity (TPA)	Quantity used in house (TPA)	Quantity disposed outside (TPA)	Management
<b>Solid Waste</b>					
SMS	Slag / Impurities	31.185	31.185	-	After recovery of metal, disposed to construction contractors for
	Waste Lining	495	495	-	

	(Ramming Mass)				road & construction filings.
	End cuts & CCM Scales	297	297	-	Recycle in Induction Furnace (used in house)
Rolling Mill	Scrap	2,474	2,474	-	
	Mill scale	146	146	-	
C&D Waste	Cement, Bricks, Mortar, etc. (only during construction phase only)	609 Tons	-	500 Tons	Material like unbroken bricks, door hinges, sheets from sheds will be reused in the proposed plant and handled as per C&D Rules 2016
<b>Hazardous Waste</b>					
Used oil	Schedule- I Sl. No.- 5.1	0.2 KL/year	-	0.2 KL/year	Stored and disposed to Authorized recyclers as per norms.
ETP Sludge	Schedule- I Sl. No.- 4.1	0.165	-	0.165	

Public Consultation:

Details of advertisement	19.07.2023 in Hindustan and Times of India
Date of public consultation	29.08.2023
Venue	Agrasen Bhawan, Upper Bazar (Near Bank of India), Govindpur, District Dhanbad 828109, Jharkhand
Presiding Officer	Mr. Nand Kishore Gupta, Additional District Collector
Major Issues Raised	<ul style="list-style-type: none"> <li>• Employment generation</li> <li>• Plantation</li> <li>• Repair of broken borewells</li> </ul>

MAJ

AS

R

Action plan as per MoEF&CC O.M. dated 30.09.2020.

S. No	Physical Activity and Action Plan		Year Wise Proposed PH Compliance Budget (Rs. In Lakhs)			Total Amount (Rs. In Lakhs)	Detail of the Physical Target
	Name of the Activity	Total Physical Targets	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year		
<b>A Drinking Water</b>							
1	Purified Drinking Water Facility at Public Places	4 Nos	5.50	5.50	11.00	22.00	In total 4 nos of Purified Drinking Water shall be installed at 4 Sub-Centres. Each Facility shall have a purifier machine of Rs. 2,00,000/- and Civil Works cost shall be Rs. 3,50,000/-.The locations are Bhitia, Kasitanr, Asanbani, and Tentulitanr..
2	Hand pump/Bore Well with Syntax Tanks (New Unit/Repair of broken)	10 Nos	9.75	9.75	13.00	32.50	In total 10 nos of Hand pumps shall be installed/repared at strategic public locations (schools/temples/PHC etc.) at Bhitiya Gram Panchayat
<b>Sub Total (Drinking Water)</b>			<b>15.25</b>	<b>15.25</b>	<b>24.00</b>	<b>54.50</b>	
<b>B Environment</b>							
1	Rain Water Harvesting in Govt. Schools and Govt. Institutions	5 Schools/ Institution / Offices	0.90	0.90	0.90	2.70	Rain Water Harvesting shall be taken-up in 5 schools/Govt Offices/Govt Institutions @ Rs. 45,000/-
2	Plantation/Afforestation Drive (including sampling and protection like tree guard etc)	30 Schools/ Institution / Offices	3.00	3.00	3.00	9.00	30 Schools or Govt. offices or Govt. Institution shall be covered in Bhitiya Gram Panchayat with approximately 1500

S. No	Physical Activity and Action Plan		Year Wise Proposed PH Compliance Budget (Rs. In Lakhs)			Total Amount (Rs. In Lakhs)	Detail of the Physical Target
	Name of the Activity	Total Physical Targets	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year		
							Sampling (50 Saplings with Tree Guard @ Rs. 600/- shall be planted in each school/institution/offices).
	<b>Sub Total (Environment)</b>		<b>3.90</b>	<b>3.90</b>	<b>3.90</b>	<b>11.70</b>	
<b>C</b>	<b>Livelihood</b>						
1	Promotion of Income Generation Activities- Tailoring & embroidery etc	100 Women	0.00	7.50	7.50	15.00	100 interested women beneficiaries within 10 SHG members of neighboring GP shall be trained within 2 years i.e. 5 Group with 10 member in each group shall be trained every year
2	Farmers input support for improving the yield for better return	150 Farmers	5.00	5.00	5.00	15.00	150 interested and selective farmers shall be provided with inputs for 3 years
	<b>Sub Total (Livelihood)</b>		<b>5.00</b>	<b>12.50</b>	<b>12.50</b>	<b>30.00</b>	
	<b>Grand Total</b>		<b>24.15</b>	<b>31.65</b>	<b>40.40</b>	<b>96.20</b>	

The existing capital cost of the project is Rs. 4.65 Crores, additional cost envisaged is Rs. 44.46 Crores. Final Project cost will be Rs. 49.11 Crores.

Cost for environmental protection measures is proposed as Rs. 2.63 Crores. The annual recurring cost towards the environmental protection measures is envisaged as Rs. 0.48 Crores. The details of cost for environmental protection measures are follows:

*M*

*R*

*M*

	Unit	Detail	Capital Cost		Operating Cost		Maintenance Cost		Recurring Cost	
			(Rs. in Lakhs)		(Rs. in Lakhs)		(Rs. in Lakhs)		(Rs. in Lakhs)	
			Existi ng	Propos ed	Existi ng	Propos ed	Existi ng	Propos ed	Existi ng	Propos ed
1	Air	APCD (Bag filter, spark arrestor)	50	-	-	-	5	-	5	-
2	Waste water	ETP, Soak Pit	20	180	16.44	-	24.67	-	41.11	-
3	Noise	Mufflers, Acoustic Enclosures	1	0.8	0.5	0.5	0.3	0.3	0.8	0.8
4	Post Environm ental Monitorin g	Air, Water, Noise, & Soil, CAAQMS , Stack Monitorin g	15	47.79	9	24.7	-	-	9	24.7
5	Greenbelt Developm ent	Plantation	2	9.45	-	-	-	1.6	-	1.6
6	Occupatio nal Health & Safety	Medical Health check-up, PPE, Fire safety	10	10	0.3	0.3	0.1	0.1	0.4	0.4
7	Public Hearing Complian ces	Employe nt, Plantation and Drinking water facility		96.2						
8	Solar Power	Solar power plant	-	197.37	-	2	-	2	-	4
<b>Sub-Total</b>			<b>98</b>	<b>541.61</b>	<b>26.24</b>	<b>27.5</b>	<b>30.07</b>	<b>4</b>	<b>56.31</b>	<b>31.5</b>
<b>Total</b>			<b>639.61</b>		<b>53.74</b>		<b>34.07</b>		<b>87.81</b>	

Total manpower requirement for the project will 150. Locals will be employed during the construction phase.

A 10 m wide greenbelt consisting of at least 3 tiers around the plant boundary will be developed as greenbelt and green cover over 0.19 ha. Additionally, a 0.615 ha area has been identified for plantation outside the plant premises. Local and native species will be planted with a density of 2500 trees per hectare. A total of 2,364 saplings will be planted and

nurtured over the combined area of 0.634 ha in 3 years. Total plantation area i.e., 0.634 ha, will be 44% of the plant area and approx. 33.1% of the total action area.

There are no violations, court cases, show cause or direction issued by any authority against the project as informed by project proponent.

#### STATUTORY CLEARANCES:

1	LOI/Lease docs	:	Lease Deed.
2	CO	:	The CO, Govindpur (Dhanbad) vide letter no. 1167, dated 16.09.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1967, dated 14.11.2021 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Dhanbad Forest Division vide letter no. 2203, dated 02.12.2021 certified that the distance of reserved / protected forest is 500 meters from project site.
5	CGWA	:	No Objection Certificate (NOC) for Ground Water Abstraction issued by CGWA vide NOC no. CGWA/NOC/IND/ORIG /2021 /12085, dated 01.06.2021.
6	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-8744396 /2020/389, dated 08.10.2020.
7	Consent to Operate (CTO)	:	CTO granted by JSPCB vide Ref. no. JSPCB/HO/RNC/CTO-13019451/2022/821, dated 09.06.2022.
8	Public Hearing	:	Public Hearing conducted on 29.08.2023.

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its 110<sup>th</sup> meeting held on 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup> and 21<sup>st</sup> October, 2023.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its 110<sup>th</sup> meeting held on 27<sup>th</sup>, 28<sup>th</sup> & 29<sup>th</sup> October, 2023 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the **"Enhancement of MS Billet production from 27,000 TPA to 148500 TPA through 3x15 T Induction Furnaces (by replacing existing 1x9 T Furnace with 1x15 T & installing additional 2x15 T Furnaces along with CCM-1x2 strand, 4/7 radius) , and production of 145500 TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25 TPH capacity and reheating furnace of 30 TPH (emergency use) by M/s Shree**

**Dwarikesh Ecotex Private Limited at Kandra Industrial Area, Village : Bhitia, Mouza : Kansitanr, Thana no. : 124, Thana :Govindpur, P.S. : Govindpur, Distt. : Dhanbad, Jharkhand”** alongwith the following specific conditions as recommended by SEAC.

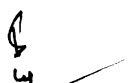
**I. Specific Conditions :**

1. This Environmental Clearance is valid subject to the following condition below –  
That this project has-
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
2. Ground water to be drawn for use in the project only after obtaining permission from the Competent Authority.
3. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
4. All raw material to be stored only under covered shed.
5. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
6. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
7. Trees should be developed & maintained not less than 33% of project area.
8. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
9. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
10. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
11. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.

**II. Statutory Compliance :**

1. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
2. The project proponent shall obtain clearance from the National Board for Wildlife if applicable.
3. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan Wildlife







Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area).

4. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to".
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board Committee.
6. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
7. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules 2016 as amended from time to time.
8. No mining/activity shall be undertake in the forest land or deemed forest without obtaining requisite prior forestry clearance.
9. This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.
10. Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located with in 10 km. of protected area).
11. The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained.

### **III. Air quality monitoring and preservation :**

1. The project proponent shall install 2x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31<sup>st</sup> March 2012 (applicable to IF/EAF) 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.
2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.


3. The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)
4. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
5. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
6. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
7. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
8. 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.
9. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
10. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
11. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
12. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

#### **IV. Water quality monitoring and preservation:**

1. 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 (applicable to IF / EAF) 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous).
2. 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 recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.

3. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
4. Adhere to 'Zero Liquid Discharge'.
5. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
6. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31<sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time.
7. 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
8. The project proponent shall practice rainwater harvesting to maximum possible extent.
9. The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

**V. Noise monitoring and prevention:**

1. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
2. The ambient noise levels should conform to the standards prescribed under E(P)A Rules 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

**VI. Energy Conservations measures:**

1. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
2. Practice hot charging of slabs and billets/blooms as far as possible.
3. Ensure installation of regenerative type burners on all reheating furnaces.
4. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.

5. Provide the project proponent for LED lights in their offices and residential areas.

#### **VII. Waste Management:**

1. Used refractories shall be recycled as far as possible.
2. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces
3. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
4. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
5. Kitchen waste shall be composted or converted to biogas for further use. *(to be decided on case to case basis depending on type and size of plant).*

#### **VIII. Green Belt:**

1. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
2. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.

#### **IX. Public Hearing and Human Health issues:**

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2. 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 of Factory Act.
3. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

#### **X. Corporate Environment Responsibility:**

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.
2. 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.

3. 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.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.
5. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
6. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.
7. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

#### **XI. Miscellaneous:**

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.

6. 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.
7. 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.
8. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9. 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.
10. 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).
11. 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.
12. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
13. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
14. 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.
15. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
16. 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.

MJ

4

h

## XII. Other Conditions:

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF & CC, Govt. of India.
3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.

Sd/-  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.

Memo No.- **EC/SEIAA/2022-23/2784/2023/380**

Dated: *02/11/2023*

Copy to:

1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District – Dhanbad, Jharkhand.
3. Divisional Forest Officer, Dhanbad Forest Division, Dhanbad, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Hazaribagh, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Integrated Regional Office, Ranchi, Ministry of Environment, Forest and Climate Change, 2<sup>nd</sup> Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.

*02/11/2023*  
Member-Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand

*MJ*

*4*