



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

To,

The Partner

JSV ENTERPRISES

R/o Ramgarh Cantt. Ward No 2, Ramgarh, Jharkhand 829122 -825405

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/IND1/407476/2022 dated 14 Dec 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|--|
| 1. EC Identification No. | EC23B000JH144379 |
| 2. File No. | EC/SEIAA/2022-23/2439/2022 |
| 3. Project Type | Expansion |
| 4. Category | B |
| 5. Project/Activity including Schedule No. | N/A |
| 6. Name of Project | Expansion of Existing 24600 TPA Billets Unit by addition of 2x12 T Induction Furnaces with CCM (2X2 Strand 4/7) and replacement of existing 1x8 T furnace by 1x12 T Induction Furnace along with addition of 20 TPH Rolling Mill For Final Production Capacity of Billets 118800 TPA, Rolled Products (Direct Hot Rolling) 117600 TPA & Slag Crusher 30000 TPA by M/s JSV Enterprises at Plot No. 48, Barhi Industrial Area, Barhi, District- Hazaribagh, State- Jharkhand |
| 7. Name of Company/Organization | JSV ENTERPRISES |
| 8. Location of Project | JHARKHAND |
| 9. TOR Date | N/A |

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

Date: 19/01/2023

(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.

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सत्यमेव जयते

State Level Environment Impact Assessment Authority, Jharkhand

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

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website: www.jseiaa.org

Letter No.- EC/SEIAA/2021-22/2439/2021/

Ranchi, Date:

To: **Shri Rajeev Kumar Agarwal (Partner),
M/s JSV Enterprises,
Plot No. 48, Barhi Industrial Area,
Barhi, Hazaribagh, District – Hazaribagh,
Pin Code – 825405 (Jharkhand).**

Sub.: Environmental Clearance for the project “Expansion of existing 24,600 TPA Billets unit by addition of 2x12T Induction Furnaces with CCM and replacement of existing 1x8T Induction Furnace by 1x12T Induction Furnace with CCM along with addition of 20 TPH Rolling Mill for final production capacity of Billets 1,18,800 TPA and Rolled Products 1,17,600 TPA of M/s JSV Enterprises at Plot no. 48, Barhi Industrial Area, Village : Konra, Tehsil : Barhi, Dist. : Hazaribagh, Jharkhand” (Proposal No. SIA/JH /IND1/407476/2022) – regarding.

Ref: Your letter no. Nil. dated : 29.11.2022.

Sir,

It is in reference to the project “Expansion of existing 24,600 TPA Billets unit by addition of 2x12T Induction Furnaces with CCM and replacement of existing 1x8T Induction Furnace by 1x12T Induction Furnace with CCM along with addition of 20 TPH Rolling Mill for final production capacity of Billets 1,18,800 TPA and Rolled Products 1,17,600 TPA of M/s JSV Enterprises at Plot no. 48, Barhi Industrial Area, Village : Konra, Tehsil : Barhi, Dist. : Hazaribagh, Jharkhand” submitted by you for seeking prior Environmental Clearances (EC).

This is a modification cum expansion project which has been taken for appraisal on 09.12.2022.

M/s. JSV Enterprises has made an online application vide proposal no. SIA/JH/IND1/407476/2022 dated 24.11.2022 along with copy of EIA/EMP report. Form – 2 seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at 3(a) Metallurgical Industries under Category “B” of the schedule of EIA Notification, 2006 and appraised at State Level.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 92nd meeting held on 20-23.10.2021 and SEIAA, Jharkhand has approved the ToRs in 93rd meeting held on 26th, 27th & 28th October, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter

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no. 200, date 30.10.2021. The final EIA / EMP submitted by PP to SEIAA on 01.12.2022 and which was forwarded to SEAC on 08.12.2022.

M/s JSV Enterprises is located at Plot No. 48, Barhi Industrial Area, Barhi, District- Hazaribagh, State- Jharkhand. The project is for expansion of Existing 24600 TPA Billets Unit by addition of 2x12 T Induction Furnaces with CCM (2x2 Strand, Rad. 4/7) and replacement of existing 1x8 T furnace by 1x12 T Induction Furnace along with addition of 20 TPH Rolling Mill For Final Production Capacity of Billets 118800 TPA, Rolled Products (Direct Hot Rolling) 117600 TPA & Slag Crusher 30000 TPA.

Environmental Site Settings:

Sl. No.	Particulars	Details			Remarks														
1	Total land	4.55ha [Industrial: 4.55ha]			Land Use: Industrial														
2	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 Existence of habitation & involvement of R&R, if any.	No additional land required for the project. Land has already been acquired and under the possession of the company. Land documents submitted. 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>DVC Colony</td><td>0.20 km</td><td>West</td></tr></table>			Habitation	Distance	Direction	DVC Colony	0.20 km	West									
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3	Land details	<table><tr><th>Khata No.</th><th>Plot No.</th></tr><tr><td>78</td><td>807P & 1474P</td></tr><tr><td>46</td><td>1475P</td></tr><tr><td>26</td><td>1476P</td></tr><tr><td>22</td><td>1477P</td></tr><tr><td>20</td><td>1478 & 1479P</td></tr><tr><td>64</td><td>1482P</td></tr><tr><td>59</td><td>1484P</td></tr></table>	Khata No.	Plot No.	78	807P & 1474P	46	1475P	26	1476P	22	1477P	20	1478 & 1479P	64	1482P	59	1484P	
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4	Latitude and Longitude of all corners of the project site.	<table><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>24°18'2.22" N</td><td>85°26'0.15" E</td></tr><tr><td>B</td><td>24°18'7.29" N</td><td>85°26'1.21" E</td></tr><tr><td>C</td><td>24°18'5.90" N</td><td>85°26'8.66" E</td></tr></table>	Point	Latitude	Longitude	A	24°18'2.22" N	85°26'0.15" E	B	24°18'7.29" N	85°26'1.21" E	C	24°18'5.90" N	85°26'8.66" E					
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Sl. No.	Particulars	Details			Remarks																		
		D	24°17'58.77" N	85°26'11.10" E																			
5	Elevation of the project site	394 m above mean sea level																					
6	Involvement of Forest land, if any	No involvement of Forest Land																					
7	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	Project Site: No water bodies within the project site Study area <table><thead><tr><th>Water Body</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Barhi River</td><td>1.25km</td><td>SW</td></tr><tr><td>Tilaiya Dam Reservoir</td><td>2.60 km</td><td>North</td></tr><tr><td>Barhi Dam</td><td>3.6 km</td><td>South</td></tr><tr><td>Nonai Nadi</td><td>5.83km</td><td>West</td></tr><tr><td>Barakar River</td><td>6.14km</td><td>West</td></tr></tbody></table>			Water Body	Distance	Direction	Barhi River	1.25km	SW	Tilaiya Dam Reservoir	2.60 km	North	Barhi Dam	3.6 km	South	Nonai Nadi	5.83km	West	Barakar River	6.14km	West	
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8	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	The ESZ of Hazaribagh Wildlife Sanctuary is at a distance of 8.6 km from the project site. However the boundary of Hazaribagh WLS is at a distance of 12.5 km from the project site																					

Company started with 24,600TPA MS Billets production by installing 1x8T Induction Furnace along with CCM (2 Strand, Rad 4/7) and 4,800TPA capacity slag crusher unit after obtaining Consent to Establish (CTE) from Jharkhand State Pollution Control Board (JSPCB) vide letter no. JSPCB/HO/RNC/CTE-3780260/2019/334, dated 29.05.2019 and Consent to Operate (CTO) for same vide letter No. JSPCB/HO/RNC/CTO-7180571/2020/1323 dated 18.08.2020. Another CTO is issued by JSPCB vide Ref No. JSPCB/HO/RNC/CTO-9576987/2021/1340 dated 01.11.2021 to the company for production of 24,600 TPA MS Billets and is valid till 31.12.2022.

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

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Sl. No	Plant Facilities	Existing Installed Units and Capacity		Proposed Units and Capacity		Total after Expansion	
		Unit	Capacity	Unit	Capacity	Unit	Capacity
1.	Induction Furnace	(1x8T)	24,600 TPA	Replacement of existing 1x8T by 1x12T and additional 2x12T)	94,200 TPA	(3x12T)	MS Billets
2.	Continuous Casting Machine	1x2 strand, Rad. - 4/7	MS Billets	1x2 strand, Rad. - 4/7	MS Billets	2x2 strand, Rad. - 4/7	118.800 TPA
3.	Rolling Mill	--	--	(1x20TPH)	117,600 TPA Long Rolled Products	(1x20TPH)	117,600 TPA Long Rolled Products
4.	Slag Crusher	--	4,800 TPA	Enhancement of Capacity by replacement of existing facility	30,000 TPA	--	30,000 TPA

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

Sl. No.	Item	Existing Requirement in TPA	Proposed Requirement in TPA	Total Requirement in TPA	Source	Distance & Mode of Transport
STEEL MELTING SHOP – (MS Billets 118,800 TPA)						
1.	Sponge Iron	19,680	75,360	95040	Local Market in Hazaribagh, Ramgarh, Giridih etc	40 to 120 km by Road
2.	Pig Iron	7,380	28,260	35640		
3.	Scrap	3,690	14,130	17820		
4.	Ferro-alloys	50	190	240		
Total		30,800	1,17,940	148,740		
ROLLING MILL – (Long Rolled Product 117,600TPA)						
1.	MS Billets	--	118,800	118,800	In house	--

The total requirement of makeup water for industrial and domestic purposes after the proposed expansion will be 204 KLD. Application for permission for the Ground water has been submitted to the CGWA. The application number for the CGWA NOC is 21-4/873/JH/IND/2022.

Total requirement of power for the after proposed expansion will be 16.0 MVA. Existing requirement of power for the operation of existing units is 6.0MVA and requirement is met through DVC. Permission for the additional power requirement shall be obtained from DVC. One DG set of 62.5 kVA will be installed along with the existing DG set of 62.5 kVA.

Baseline Environmental Studies:

Parameters	Description	Permissible Level
AAQ parameters at 8 Locations (min and max)	<p>In the month of March to May 2021 PM2.5 20.7 $\mu\text{g}/\text{m}^3$ and 35.1 $\mu\text{g}/\text{m}^3$ PM10 40.8 $\mu\text{g}/\text{m}^3$ to 69.2 $\mu\text{g}/\text{m}^3$ SO2 17.6 $\mu\text{g}/\text{m}^3$ to 29.8 $\mu\text{g}/\text{m}^3$ NO2 29.3 $\mu\text{g}/\text{m}^3$ to 49.6 $\mu\text{g}/\text{m}^3$ CO 1.5 mg/m^3 to 2.5 mg/m^3</p> <p>In the month Of November 2021 PM2.5 47.0 $\mu\text{g}/\text{m}^3$ and 64.4 $\mu\text{g}/\text{m}^3$ PM10 51.2 $\mu\text{g}/\text{m}^3$ to 70.2 $\mu\text{g}/\text{m}^3$ SO2 22.2 $\mu\text{g}/\text{m}^3$ to 30.4 $\mu\text{g}/\text{m}^3$ NO2 35.9 $\mu\text{g}/\text{m}^3$ to 49.2 $\mu\text{g}/\text{m}^3$ CO 2.3 mg/m^3 to 3.1 mg/m^3</p>	60 $\mu\text{g}/\text{m}^3$ 100 $\mu\text{g}/\text{m}^3$ 80 $\mu\text{g}/\text{m}^3$ 80 $\mu\text{g}/\text{m}^3$ 02 mg/m^3
Ground Water Quality	<p>In the month of March to May 2021 pH varies from to 7.41 to 7.65 Total Hardness varies from 214 to 258 mg/L. Total Dissolved Solids varies from 325 to 434 mg/L.</p> <p>In the month Of November 2021 pH varies from to 7.44 to 7.68 Total Hardness varies from 222.18 to 262.43 mg/L. Total Dissolved Solids varies from 345 to 462 mg/L.</p>	6.5-8.5 200-600 mg/L 500-2000 mg/L
Surface Water Quality	<p>In the month of March to May 2021 pH varies from to 7.58 to 7.89 Dissolved Oxygen varies from 5.9 to 6.6 mg/L. BOD varies from 11.0 to 16.00 mg/L.</p> <p>In the month Of November 2021 pH varies from to 7.61 to 7.81 Dissolved Oxygen varies from 5.8 to 6.4 mg/L. BOD varies from 10.0 to 14.00 mg/L.</p>	IS:2296 Class C Norms
Soil Quality	<p>In the month of March to May 2021 pH 7.45 to 7.86</p>	----

Parameters	Description	Permissible Level																									
	Potassium K 124.0 to 193.0 kg/ha Available nitrogen N 158.16 to 236.11 (Kg/hect) Organic matter 0.38% to 0.61% In the month Of November 2021 pH 7.58 to 7.81 Potassium K 123.0 to 174.0 kg/ha Available nitrogen N 158.16 to 235.11 (Kg/hect) Organic matter 0.37% to 0.60 %																										
Noise Level	In the month of March to May 2021 Day Time (6:00 a.m. to 10:00 p.m.) 47.45 Leq dB(A) to 67.82 Leq dB(A) Night Time (10:00 p.m. to 6:00 a.m.) 39.45 Leq dB(A) and 56.24 Leq dB(A) In the month Of November 2021 Day Time (6:00 a.m. to 10:00 p.m.) 49.45 Leq dB(A) to 68.52 Leq dB(A) Night Time (10:00 p.m. to 6:00 a.m.) 40.1 Leq dB(A) and 58.24 Leq dB(A)	75 Leq dB (A) 70 Leq dB (A)																									
Traffic assessment study findings	<ul style="list-style-type: none">• The traffic study was carried at two locations NH-2 (Delhi Kolkata Highway) at 50m road distance in East and NH-31 (Ranchi Patna Road) at 2km road distance in West• Transportation of Raw material, Fuel and Finished product will be done by Road• Existing PCU is 4726PCU/Day on NH-31 and 4331 PCU/day on NH-2 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>NH-31</td><td>4726</td><td>15000</td><td>0.32</td><td>B</td></tr><tr><td>NH-2</td><td>4331</td><td>15000</td><td>0.29</td><td>B</td></tr></table> <ul style="list-style-type: none">• PCU load after proposed project will be 4774 PCU/Day (Existing 4726 + 48) for NH-31 and 4427 PCU/day (Existing 4331 + Addl. 96) for NH-2 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>V/C Ratio</th><th>LOS</th></tr><tr><td>NH-31</td><td>4,774</td><td>15,000</td><td>0.32</td><td>B</td></tr></table>	Road	V (Volume in PCU/day)	C (Capacity in PCU/day)	Existing V/C Ratio	LOS	NH-31	4726	15000	0.32	B	NH-2	4331	15000	0.29	B	Road	V (Volume in PCU/day)	C (Capacity in PCU/day)	V/C Ratio	LOS	NH-31	4,774	15,000	0.32	B	
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Parameters	Description					Permissible Level					
	<table><tr><td>NH-2</td><td>4.427</td><td>15.000</td><td>0.30</td><td>B</td></tr></table> <p>Conclusion: Level of Service will be “B” i.e. Very Good for NH-31 and NH-2 including additional traffic due to proposed project.</p> <p>Note: Capacity as per IRC 64:1990 Guideline for capacity for roads in Rural Areas.</p>					NH-2	4.427	15.000	0.30	B	
NH-2	4.427	15.000	0.30	B							
Flora and fauna	Schedule – I species such as Indian Pangolin, Sloth Bear, and Indian Vulture are reported in study area. Wildlife conservation plan has been prepared and submitted along with.										

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

Units	Solid Wastes	Qty. In TPA	Disposal Practice
Induction Furnace	Slag	29.000	After metal extraction (approx. 12% of slag), it will be supplied to outside parties for construction filling.
CCM	Scales & End cuts	810	Will be charged back as scrap in the induction furnace for In-House Reuse.
Rolling Mill	Mill Scale & cuttings	1.200	Will be charged back as scrap in the induction furnace for In-House Reuse.
Bag Filter Dust from process	Dust from process	130	Supplied to outside parties for construction filling

Public Consultation

Details of advertisement given	“Hindustan Times” on 14.06.2022, “Dainik Bhaskar” on 15.06.2022, “Prabhat Khabar” on 15.06.2022 and “Hindustan” on 15.06.2022
Date of public consultation	15.07.2022
Venue	Anganwadi Centre, Turi Tola Konra, Hazaribagh, Jharkhand
Presiding Officer	Smt. Poonam Kujur, SDM, Barhi, Jharkhand
Major issues raised	Employment to be given to local people in the proposed expansion. Development shall be done in the local area and to improve the condition of existing Road and Water Facilities in the local area.

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

S. No.	Issues Raised and Action Plan		Target of Implementation of Action Plan (Timeline) with year wise expenditure		Total Expenditure Rs.
	Issue Raised In PH	Action Plan	1 st Year	2 nd Year	
1	Development of the Area.	<p>Installation of bore well with hand pumps</p> <p>No. of Villages: 5 village around the project site</p> <p>No. of Borewells and Hand Pumps: 4 in each village</p> <p>Cost: Rs. 28500 per set of bore well and hand pumps</p>	<p>Rs. 3.42 Lakhs (For 3 Villages,</p> <p>Rs. 28500 x 4x3)</p>	<p>Rs. 2.28 Lakhs (For2 Villages,</p> <p>Rs. 28500 x 4x2)</p>	Rs. 5.70 Lakhs
2.	Improvement in the conditions of existing Road and water facilities	Renovation of 0.65Ha Village Pond near Bahri for making it useful for domestic and for rainwater harvesting	<p>Rs. 3.45 Lakhs (Renovation of Pond)</p>	--	Rs.3.45 Lakhs
		Maintenance of Existing 2km Road connecting Turi Tola Village to MDR	--	<p>Rs. 6.2 Lakhs (Cost of maintenance is 1km @ Rs. 3,10,000)</p>	Rs.6.2 Lakhs
Total (Rs.)			Rs. 6.87 Lakhs	Rs. 8.48 Lakhs	Rs. 15.35 Lakhs

Existing Capital cost of project was Rs. 17.55 Crores. The capital cost of the proposed project is Rs. 14.90 Crores and the capital cost for environmental protection measures is proposed as Rs. 1.22468 Crores. The annual recurring cost towards the environmental protection measures is







proposed as Rs 0.2445 Crores. The employment generation from the proposed expansion is 160. The details of cost for environmental protection measures are as follows :

Sl. No.	Environmental Protection Measures	Proposed Rs. in Lakhs	
		Capital Cost	Recurring Cost
1	Air Pollution Control & Noise Management	45.0	4.5
2	Water Pollution Control Measures	19.0	3.0
3	Storage and Solid Waste Management	7.0	1.0
4.	Environment Monitoring Program	12.0	6.95
5.	Occupational Health & Safety	11.0	6.5
6.	Greenbelt Development	28.468	2.5
7.	Addressal of Public Consultation Concern	15.35	-
Total		137.818	24.45

The greenbelt development needs to be carried out in 33% of total plant area i.e. 1.50Ha (3.71 Acres). As per the ToR condition, company shall be developing greenbelt under MIYAWAKI method of afforestation on an area of 1 Acre of land out of 3.71 Acres marked for 33% green cover in the plant premises. For the Greenbelt development on the remaining area of 1.09 Ha plantation shall be done as per CPCB guidelines, maintain the tree density of 2500 trees/hectare.

The total Capital budget for greenbelt development on 1.5Ha of area will be Rs. 28.468 lakhs out of which Rs. 16.00 lakhs is kept for afforestation as per Miyawaki Method and remaining Rs. 12.468 lakhs will be spent on developing 3-Tier Plantation within the plant premises. Also, a recurring budget of Rs. 3.5Lakhs shall be kept for the yearly maintenance of green cover

There is no violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration.

STATUTORY CLEARANCES :

1	CO	:	The CO, Barhi, (Hazaribagh) vide letter no. 657, dated 03.09.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 107, dated 18.01.2021 certified that the proposed project site is outside Eco Sensitive Zone of Hazaribag Wildlife Sanctuary.

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3	DFO Forest Distance	:	DFO, Hazaribagh West Division vide letter no. 6577, Dated 16.11.2019 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
4	Public Hearing	:	JSPCB vide Ref. no. B-2030, dated 23.09.2022 informed that the Public Hearing conducted 15.07.2022.

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in 99th meeting held on 07th, 08th, 09th, 10th and 11th December, 2022.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its 100th meeting held on 21st & 22nd December, 2022 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

On the basis of recommendation of SEAC and decision of SEIAA to grant of EC, Environmental Clearance is hereby issued to the **“Expansion of existing 24,600 TPA Billets unit by addition of 2x12T Induction Furnaces with CCM and replacement of existing 1x8T Induction Furnace by 1x12T Induction Furnace with CCM along with addition of 20 TPH Rolling Mill for final production capacity of Billets 1,18,800 TPA and Rolled Products 1,17,600 TPA of M/s JSV Enterprises at Plot no. 48, Barhi Industrial Area, Village : Konra, Tehsil : Barhi, Dist. : Hazaribagh, Jharkhand”** alongwith the following specific conditions as recommended by SEAC:

I. Specific Conditions:

- i. 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.
- ii. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continuous Improvement and periodical management review.
- iii. All raw material to be stored only under covered shed.
- iv. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- v. 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.

- vi. Trees should be planted & maintained not less than 15% of project area.
- vii. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is used as compost manure.
- viii. Developers/Company to install STP of sufficient capacity such that all the sewage generated is treated and reused.
- ix. 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.
- x. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- xi. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- xii. Sufficient number of EV fast charging point to be installed.
- xiii. No mining/activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.
- xiv. 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.
- xv. 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).
- xvi. 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.

II. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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. (incase of the presence of schedule-I species in the study area).
- iv. 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".
 - v. 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.
 - vi. 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.
 - vii. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
 - viii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi/SEIAA/CPCB.
 - ix. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - x. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.

III. Air quality monitoring and preservation:

- i. The project proponent shall install 24x7 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 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 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. 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)
- iv. 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.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. 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.
- ix. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- xii. 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:

- 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 (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).



- 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 recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. 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.
- iv. Adhere to 'Zero Liquid Discharge'.
- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vi. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
- vii. 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.
- viii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- ix. 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:

- i. 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.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB (A) during day time and 70 dB(A) during night time.

VI. Energy Conservation measures:

- i. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- ii. Practice hot charging of slabs and billets/blooms as far as possible.
- iii. Ensure installation of regenerative type burners on all reheating furnaces.



- iv. 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.
- v. Provide the project proponent for LED lights in their offices and residential areas.

VII. Waste management:

- i. Used refractories shall be recycled as far as possible.
- ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces.
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. The waste oil, grease and other hazardous waste shall be disposed of as per the
- v. Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- vi. 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:

- i. 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.
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

IX. 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 of Factory Act.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

X. Corporate Environment Responsibility:

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







- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. 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.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

XI. 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; PMIO, SO₂, NO_x (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 authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. 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).
- 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. 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.

- xvi. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

XII. Other Conditions:

- i. 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.
- ii. In view of MoEF & CC O.M. No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.
- iii. 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/2021-22/2439/2021/343

Dated: 29/12/2022

Copy to:

1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, Hazaribagh, District- Hazaribagh, Jharkhand.
3. Divisional Forest Officer, Hazaribagh West Forest Division, Hazaribagh, 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, 2nd 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.

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand