



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

To,

The Director
 JAI PRABHUJI IRON AND STEEL PVT LTD
 C 21-24, Kandra Industrial Area -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/IND1/448527/2023 dated 16 Oct 2023. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC23B008JH137579 |
| 2. File No. | EC/SEIAA/2023-24/2710/2023 |
| 3. Project Type | Expansion |
| 4. Category | B |
| 5. Project/Activity including Schedule No. | 3(a) Metallurgical industries (ferrous & non ferrous) |
| 6. Name of Project | Expansion of existing plant of 36000 TPA M.S. Billets/Ingots to a final configuration of Induction Furnaces 2x10T & 2x12T (Billets/Ingots- 145200 TPA) with Slag Crusher (10 TPH) –33000 TPA, TMT Bars & Rolled Products – 165000 TPA and reheating furnace of 30 TPH (emergency use) at Plot No C-21 to C-25 at Kandra Industrial Area Govindpur, District - Dhanbad, Jharkhand by Jai Prabhuji Iron & Steel (P) Ltd |
| 7. Name of Company/Organization | JAI PRABHUJI IRON AND STEEL PVT LTD |
| 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: 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.

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State Level Environment Impact Assessment Authority, Jharkhand.

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

E-mail: mssciasa.jhkr@gmail.com/chr-seiaajhr@gov.in

website: www.jseiaa.org

Letter No.- EC/SEIAA/2022-23/2710/2023/

Ranchi, Date:

To: **M/s Jai Prabhuji Iron & Steel Private Limited,
Sri Raj Kumar Choudhary (Director),
Kaprapatti Main Road, Ram Kanali,
Katrasgarh, Dist - Dhanbad, Jharkhand – 828113,**

Sub.: Environmental Clearance for the project “Expansion of existing plant of 36000 TPA M.S. Billets / Ingots to a final configuration of induction furnaces 2x10 T & 2x12 T (Billets / Ingots-145200 TPA) with Slag Crusher (10 TPH) – 33000 TPA, TMT Bars & Rolled Products – 165000 TPA and reheating furnace of 30 TPH (emergency use) of M/s Jai Prabhuji Iron & Steel Pvt. Ltd., Village : Kanshitanr, Tehsil : Govindpur, Distt. : Dhanbad, Jharkhand” (Proposal No. : SIA/JH/IND1/448527/2023) – regarding.

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

Sir,

It is in reference to the project “Expansion of existing plant of 36000 TPA M.S. Billets / Ingots to a final configuration of induction furnaces 2x10 T & 2x12 T (Billets / Ingots-145200 TPA) with Slag Crusher (10 TPH) – 33000 TPA, TMT Bars & Rolled Products – 165000 TPA and reheating furnace of 30 TPH (emergency use) of M/s Jai Prabhuji Iron & Steel Pvt. Ltd., Village : Kanshitanr, Tehsil : Govindpur, Distt. : Dhanbad, Jharkhand”, submitted by you for seeking prior Environmental Clearances (EC).

Project Category : B1 – The State Expert Appraisal Committee, Jharkhand deliberated the project during its 100th meeting held on 09 - 14.01.2023 and SEIAA, Jharkhand has approved the ToRs in 101st meeting held on 23rd & 24th January, 2023. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2022-23/2710/2023/373, dated 30.01.2023. The final EIA / EMP submitted by PP to SEIAA on 15.10.2023 and which was forwarded to SEAC on 16.10.2023.

The project of M/s Jai Prabhuji Iron & Steel (P) Ltd for Enhancement of MS Billets Production from 36.000 TPA to 145.200 TPA through 2x10T & 2x12T Induction Furnaces (replacement of existing 1x3T & 2x6T Furnace by 2x10T+1x12T and installing additional 1x12T & 1x12T LRF), existing CCM (1x2 strand, Rad. - 4/7) along with installation of Slag crusher of 1x10TPH capacity (33.000TPA) and production of 165.000TPA TMT Bars & Rolled products by installing 1x25TPH Rolling Mill along with 1x30TPH Reheating Furnace (Coal/Furnace Oil fired) at Plot No C-21 to C-25 at Kandra Industrial Area, Tehsil: Govindpur, District -Dhanbad, Jharkhand.

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Environmental Site Settings:

S. No.	Particulars	Details			Remarks																						
1.	Total land	1.975ha [Private: 1.975ha]			Land Use: 1.368Ha- Industrial 0.607Ha- Rayati Land																						
2.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Existing Land: 1.368Ha (3.38Acres) Additional Land: 0.607Ha (1.50Acres) Total 1.975Ha (4.88Acres)land is under the possession of the company. Land documents have been submitted.			Additional land of 0.607Ha(1.50Acres) has been acquired for greenbelt development vide sale deed dated 12.10.2023																						
3.	Existence of habitation &involvement of R&R, if any.	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>Kandra</td><td>0.270</td><td>SE</td></tr></table>			Habitation	Distance	Direction	Kandra	0.270	SE	No Habitation or any other type settlement on additional land acquired																
Habitation	Distance	Direction																									
Kandra	0.270	SE																									
4.	Land details	<table><tr><th>Khata No.</th><th>Plot No.</th></tr><tr><td>19</td><td>81P, 78P, 95P, 101P, 102</td></tr><tr><td>18</td><td>82, 83, 85, 98P</td></tr><tr><td>4</td><td>84P, 79P, 420P, 108P</td></tr><tr><td>23</td><td>96P, 97, 103P, 104P</td></tr><tr><td>11</td><td>100</td></tr><tr><td colspan="2">Additional Land for Greenbelt development- 0.607 Ha.</td></tr><tr><th>Khata No.</th><th>Plot No.</th></tr><tr><td>32</td><td>150 (P),127</td></tr></table>	Khata No.	Plot No.	19	81P, 78P, 95P, 101P, 102	18	82, 83, 85, 98P	4	84P, 79P, 420P, 108P	23	96P, 97, 103P, 104P	11	100	Additional Land for Greenbelt development- 0.607 Ha.		Khata No.	Plot No.	32	150 (P),127	--						
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32	150 (P),127																										
5.	Latitude and Longitude of all corners of the project site.	<table><tr><th colspan="3">Project Site 1.368Ha (3.38Acres)</th></tr><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>23°50'59.07"N</td><td>86°28'41.35"E</td></tr><tr><td>B</td><td>23°50'56.29"N</td><td>86°28'46.44"E</td></tr><tr><td>C</td><td>23°50'53.94"N</td><td>86°28'45.32"E</td></tr><tr><td>D</td><td>23°50'52.69"N</td><td>86°28'44.04"E</td></tr><tr><td>E</td><td>23°50'53.45"N</td><td>86°28'42.01"E</td></tr></table>			Project Site 1.368Ha (3.38Acres)			Point	Latitude	Longitude	A	23°50'59.07"N	86°28'41.35"E	B	23°50'56.29"N	86°28'46.44"E	C	23°50'53.94"N	86°28'45.32"E	D	23°50'52.69"N	86°28'44.04"E	E	23°50'53.45"N	86°28'42.01"E	--	
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S. No.	Particulars	Details			Remarks						
		F	23°50'54.33"N	86°28'40.33"E							
		G	23°50'56.93"N	86°28'40.41"E							
		Additional Land 0.607Ha (1.50Acres)									
		A	23°52'9.77"N	86°28'28.80"E							
		B	23°52'11.32"N	86°28'26.21"E							
		C	23°52'10.65"N	86°28'25.71"E							
		D	23°52'11.09"N	86°28'24.95"E							
		E	23°52'7.75"N	86°28'23.27"E							
		F	23°52'7.25"N	86°28'23.42"E							
		G	23°52'6.59"N	86°28'23.89"E							
		H	23°52'10.43"N	86°28'26.04"E							
		6.	Elevation of the project site	222 m above mean sea level			--				
7.	Involvement of Forest land, if any	No involvement of Forest Land			--						
8.	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><tr><th>Water Body</th><th>Distance</th><th>Direction</th></tr><tr><td>Khudia Nadi</td><td>0.90</td><td>NW</td></tr></table>			Water Body	Distance	Direction	Khudia Nadi	0.90	NW	--
Water Body	Distance	Direction									
Khudia Nadi	0.90	NW									
9.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	None with 10 km radius of the project.			However, Wildlife Conservation Plan having budget of Rs 68.304Lakhs is prepared for the Schedule-I species present in 10km study area.						

Company started production in the year 2005 after obtaining Consent To Establish (CTE) vide ref no. N-113 dated 19.02.2005 from Jharkhand State Pollution Control Board (JSPCB) for production of 51.5TPD MS Ingots. Another CTE was obtained vide ref no. N-559 dated 14.12.2005 from JSPCB for additional production of 20.35TPD MS Ingots. Company obtained Environmental Clearance vide letter No. J-11011/180/2010-IA II (I) dated 13.07.2011 from MoEF&CC, New Delhi for expansion of MS Ingots production from 21.600TPA MS Ingots to 36.000TPA MS Ingots and installation of Submerged Arc Furnaces (2x5MVA) for the production of 15.000TPA Silico-Manganese Ferro Alloy. Company obtained CTE only for the production of additional 48TPD MS Ingots vide ref no. B-2474

dated 12.09.2011 from JSPCB. Company has also obtained 'No Increase in Pollution Load (NIPL)' certificate from JSPCB vide letter having Ref. no. B-1156 dated 17.06.2022 for change of product from 36,000TPA MS Ingots to 36,000TPA MS Billets by installing CCM and dropped installation of SAF for 15,000TPA Si-Mn production. Consent to Operate (CTO) for the production of 36000TPA was obtained from JSPCB vide letter no. JSPCB/HO/RNC/CTO-3706288/2018/1699 dated 30.10.2018 and valid up to 31.12.2023.

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

Sl.No	Plant Facilities	Existing Installed Units and Capacity		Proposed Units		
		Unit	Capacity TPA	Unit	Operation Days	Capacity TPA
1.	Steel Melting Shop (IF-LRF-CCM)	1x3T+2x6T	36,000TPA MS Billets	Replacement of Existing IF(1x3T+2x6T) by 2x10T+1x12T	330	1,05,600 MS Billets
				Installation of additional 1x12 TIF along with 1x12TLRF	330	39,600 MS Billets
		1x2 strand, Rad. -4/7		--	--	
2.	Reheating Furnace	--	--	(1x30TPH)	330	99,000
3.	Rolling Mill	--	--	1x25TPH	330	165000
4.	Slag Crusher Unit	--	--	1x10TPH	330	33000TPA (Metal Recovery - 3180)

Total After Expansion		
Unit	Operation Days	Capacity TPA
IF:2x10T+2x12TLRF:1x12T	330	1,45,200 MS Billets
1x2 strand, Rad. -4/7	330	
(1x30) TPH	330	99,000
1x25 TPH	330	165000

1x10 TPH	330	33000TPA (Metal Recovery- 3180)
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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 145,200 TPA)						
1.	Sponge Iron	28800	87360	116,160	Local Market in Dhanbad	40to 120 Km by Road
2.	Pig Iron	10800	32760	43560		
3.	Scrap	5400	16380	21780		
4.	Ferro- alloys	72	218	290		
Total		45,072	136,718	181,790		
ROLLING MILL– (Long Rolled Product 165,000 TPA)						
1.	MSBillets	--	145,200	145,200	Hot Billets direct charging	Conveyor
		--	23,100	23,100	Purchased from nearby Plants	40 to 120 km by Road
	Total	--	168,300	168,300		
2.	Coal/Furnace Oil for re-heating furnace	--	11088TPA/ 3300KL	11088TPA/ 3300KL	Purchase from open market	40 to 120 km By Road

The total make-up water requirement of the plant is estimated at 198.8KLD. Presently company is sourcing 51KLD of ground water through bore-wells and is having permission for the same obtained from Central Ground Water Authority (CGWA) vide NOC CGWA/NOC/IND /ORIG/2021/10346 dated 20/01/2021 and valid up to 19/01/2024. Application having ref. no. 21-4/509/JH/IND/2019 dated 14.10.2023 has been submitted to Central Ground Water Authority (CGWA) to obtain the NOC for withdrawal of total 199 KLD of water through bore well and is under examination.

Total requirement of power for the after proposed expansion will be 25.0MVA. Existing requirement of power for the operation of existing units is 6.8MVA and requirement is met through DVC and permission for the same has been obtained. Permission for the additional power requirement shall also be obtained from DVC. One DG set of 625kVA will be installed along with the existing DG set of 625 kVA.

Baseline Environmental Studies: 1st December 2022 to 28th February 2023

Parameters	Description	Permissible Level
AAQ parameters at 8	PM2.5 28.6 to 52.3 µg/m ³ PM10 51.3 to 78.5 µg/m ³	60 µg/ m ³ 100 µg/ m ³

Parameters	Description		Permissible Level										
Locations (min and max)	SO2 10.6 to 22.9 µg/m3 NO2 17.1 to 36.1 µg/m3 CO 0.51 to 1.14 mg/m3		80 µg/ m ³ 80 µg/ m ³ 02 mg/m ³										
Ground Water Quality	pH varies from to 7.52 to 7.85 Total Hardness varies from 230.76 to 342.09mg/l Total Dissolved Solids varies from 402 to 456 mg/l. Chlorides varies from 91.85 to 112.11 mg/l Fluoride varies from 0.27 to 0.42 mg/l		6.5-8.5 200-600 mg/L 500-2000 mg/L 250-1000 mg/L 1.0-1.5 mg/L.										
Surface Water Quality	pH varies from 7.54 to 7.90 Dissolved Oxygen varies from 5.4 to 6.9 mg/l. BOD varies from 6.42 to 41.0 mg/l. COD varies from 21.09 to 84.0 mg/l.		IS:2296 Class C Norms										
Soil Quality	pH varies from 7.22 to 7.49 EC varies from 0.242 to 0.608 mS/cm Potassium varies from 126.11 to 176.11 (Kg/ha) Available nitrogen varies from 138.11 to 206.11 (Kg/ha) Organic matter varies from 0.36% to 0.69%		----										
Noise Level	1	Day Time (6:00 a.m. to 10:00 p.m.) 67.29 Leq dB(A) Night Time (10:00 p.m. to 6:00 a.m.) 59.42 Leq dB(A)	75 Leq dB (A) 70 Leq dB (A)										
	7	Day Time (6:00 a.m. to 10:00 p.m.) 49.26 Leq dB(A) and 63.66 Leq dB(A) Night Time (10:00 p.m. to 6:00 a.m.) 38.77 Leq dB(A) and 56.82 Leq dB(A)	55 Leq dB (A) 45 Leq dB (A)										
Traffic assessment study findings	The traffic study was carried at two locations NH-2 (Delhi Kolkata Highway) at 300m road distance in SSW direction. Transportation of Raw material, Fuel and Finished product will be done by Road. Existing PCU is 3558.5PCU/Day on NH-2and existing level of service (LOS) is 'B'		--										
	<table><tr><td>Road</td><td>V (Volume in PCU/day</td><td>C (Capacity in PCU/day)</td><td>Existing V/C Ratio</td><td>LOS</td></tr><tr><td>NH-2</td><td>3558.5</td><td>15000</td><td>0.24</td><td>B</td></tr></table>			Road	V (Volume in PCU/day	C (Capacity in PCU/day)	Existing V/C Ratio	LOS	NH-2	3558.5	15000	0.24	B
	Road	V (Volume in PCU/day		C (Capacity in PCU/day)	Existing V/C Ratio	LOS							
NH-2	3558.5	15000	0.24	B									
PCU load after proposed project will be 3693.5 PCU/Day (Existing 3558.5 + 135) for NH-2 level of service (LOS) will remain 'B'													
<table><tr><td>Road</td><td>V (Volume in PCU/day)</td><td>C (Capacity in PCU/day)</td><td>V/C Ratio</td><td>LOS</td></tr></table>		Road	V (Volume in PCU/day)	C (Capacity in PCU/day)	V/C Ratio	LOS							
Road	V (Volume in PCU/day)	C (Capacity in PCU/day)	V/C Ratio	LOS									

Parameters	Description					Permissible Level					
	<table><tr><td>NH-2</td><td>3693.5</td><td>15.000</td><td>0.25</td><td>B</td></tr></table> <p><i>Conclusion: Level of Service will be “B” i.e. Very Good for NH-2 including additional traffic due to proposed project.</i></p> <p><i>Note: Capacity as per IRC 64:1990 Guideline for capacity for roads in Rural Areas.</i></p>					NH-2	3693.5	15.000	0.25	B	
NH-2	3693.5	15.000	0.25	B							
Flora and fauna	There are four Schedules - I fauna Jackal, Russel Viper, Common Rat snake and Common Hill Myna are found in 10 km of the study area. Wildlife Conservation Plan is prepared and will be submitted to Chief Wildlife Warden, Jharkhand for approval. Total budget allocated for carrying out various activities for conservation of species is Rs. 68.304Lakhs					--					

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	31944	Will be sent to metal recovery plant. After metal extraction (approx. 10% metal recovered) remaining crushed material will be supplied to road and building construction companies for filling.
	Waste Lining	660	
	Scale & End cuttings	2614	Recycled in-house along with scrap in the induction furnace.
Rolling Mill	Mill Scale & cuttings	3300	
Re-heating Furnace (coal used as fuel)	Ash & Bag filter dust	490	Supplied to fly-ash block manufactures
Bag Filter Dust from Induction Furnaces	Dust from process	290	Will be supplied to road and Building construction companies for filling

Public Consultation

Details of advertisement given	"Hindustan Dhanbad" and "The Times of India" on dated 10.05.2023 and 11.05.2023
Date of public consultation	09.06.2023
Venue	Agrasen Bhawan, Upper Bazar, (Near Bank of India), Govindpur, Dist- Dhanbad, Jharkhand
Presiding Officer	Mr. Nand Kishore Gupta, Additional Collector, Dhanbad
No. of Attendees	65
Major issues raised	Employment, Area Development and Water facility

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







Action plan for addressing the Public Hearing Commitments

Sl. No	Activities	Physical Targets
1.0	Developmental Activities in nearby Village Bhitia & Village Saharjori	
1A	Installation of Hand Pumps	Installation of Five (5) nos. of Mark-2 Hand Pumps (including boring) at different locations in each village Bhitia and Saharjori
1B	Installation of Solar Street Lights	Installation of 25 nos. of solar lights in the village Bhitia. (Solar light with GI pipe and installation).
1C	Renovation of pond	Renovation of pond located in village Bhitia by carrying out first time shaping with excavation and slope stabilization and Beautification of pond by plantation of 200 trees along boundary of pond along with Yearly Cleaning/Desilting of Pond.
1D	Rainwater Harvesting Infrastructure	Construction of Rainwater Harvesting Structure at Aganwadi building of Bhitia village, which will involve Recharge pit construction along with installing necessary facilities.
1E	Renovation of Temples	Renovation of Shiv Mandir in Village Bhitia and Shree Harihar Dham in Village Saharjori which will involve maintenance of building & painting and installation of One (1) no. of bore-well with water cooler cum purifier at each temple as drinking water facilities
1F	Providing Ambulance as Health Care Facility	Providing 1 No. of Ambulance with life support facilities i.e. Oxygen Supply unit with necessary accessories and Nebulizer along with stretchers, which will be stationed in the plant and will be 24x7 available for medical support to people of Village Bhitia & Saharjori
1G	Renovation of Govt. Middle School	Renovation of School will involve maintenance required in the building and painting, providing furniture & white boards in all classrooms, construction of separate Two (2) pair of toilets for boys & girls and installation of drinking water system (submersible pump and Water Cooler)
2.0	Developmental Activities in Govindpur	
2A	Installation of Hand Pumps	Installation of total of 4 no. of Mark-2 hand pumps (boring + Installation of hand pump) at different location in Govindpur (Kali Mandir, Rajkiykrit High School, Govt High school, Rajkiya Buniyadi Vidyalaya)
2B	Providing Ambulance as Health Care Facility	Providing 1 No. of Ambulance with life support facilities i.e. Oxygen Supply unit with necessary accessories and Nebulizer along with stretchers, to Govt Hospital Govindpur
2C	Renovation of Govt Middle School Govindpur	Renovation of School will involve maintenance required in the building and painting, providing furniture & white boards in all classrooms, construction of separate Two (2)

Sl. No	Activities	Physical Targets
		pair of toilets for boys & girls and installation of drinking water system (submersible pump and Water Cooler)

Year of Implementation and Cost (in Rs Lakhs)			Total Expenditure (Rs. In Lakhs)
1 st Year	2 nd Year	3 rd Year	
Developmental Activities in nearby Village Bhitia & Village Saharjori			
2.0 village Bhitia	2.0 village Saharjori	--	4.0
10.0	--	--	10.0
7.0	0.50	0.50	8.0
5.0	--	--	5.0
5.0 village Bhitia	5.0 village Saharjori	--	10.0
12.0	--	--	12.0
--	15.0	--	15.0
Developmental Activities in Govindpur			
--	--	1.6	1.6
--	--	12.0	12.0
--	--	15.0	15.0
41.0	22.5	29.1	92.6

Existing Capital cost of project was Rs. 9.05 Crores. The capital cost of the proposed project is Rs. 57.10 Crores and the capital cost for environmental protection measures is proposed as Rs. 1.1909 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 0.2765 Crores.

Total employment in the plant after the proposed expansion will be 150. Existing manpower employed is 80.

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	73.5	11.2
2	Water Pollution Control Measures	18.0	2.30
3	Storage and Solid Waste Management	7.0	1.0

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Sl. No.	Environmental Protection Measures	Proposed Rs. in Lakhs	
		Capital Cost	Recurring Cost
4.	Environment Monitoring Program	-	5.45
5.	Occupational Health & Safety	11.0	6.5
6.	Greenbelt Development	9.59	1.20
	Total	119.09	27.65
7.	Addressal of Public Consultation Concern	92.6	-
	Total	211.69	27.65

Since this is an existing plant, company already developed 0.22Ha (0.54Acres) area as green cover having 150 no. of surviving trees in the plant premises. Due to unavailability of land within the plant premises, company has acquired an additional patch area 0.607Ha (1.50 Acres) vide sale deed dated 12.10.2023 for greenbelt development. A total area of 0.827 Ha (0.607Ha outside the plant +0.22Ha within the plant premises) will be developed as greenbelt, having total of 2068 number of trees (550 within the plant premises and 1518 outside the plant) with total capital investment of Rs. 9.59 Lakhs and recurring budget of Rs. 1.20 Lakhs per year. Company will be doing the total greenbelt development till the end of the year 2024

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

STATUTORY CLEARANCES

1	LOI/Lease docs	:	Deed No. 8675 - 2.00 Acre - Dated: 10.12.2003. Deed No. 6808 - 1.38 Acre – Dated: 26.08.2004. Deed No. 1184/1108 – 1.50 Acre – Dated: 21.03.2018.
2	CO	:	The CO, Govindpur (Dhanbad) vide letter no. 1424, dated 20.11.2021 has mentioned the plot no. of the project is not recorded as “Jungle Jhari” in R.S. Khatiyani & Register II.
3	DFO Wild Life	:	DFO Wildlife, Hazaribagh vide letter no. 1347, dated 11.07.2019 certified that the proposed project site is outside Eco Sensitive Zone of Topchanchi Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Dhanbad vide letter no. 1678, dated 06.11.2018 certified that the distance of notified forest is 2037 meters from project site.
5	Consent to Operate (CTO)	:	CTO granted by JSPCB vide Ref. no. JSPCB/HO/RNC/CTO-3706288/ 2018/1699, dated 30.10.2018.
6	CGWA	:	i. No Objection Certificate (NOC) for Ground Water Abstraction vide NOC no. CGWA/NOC/IND/ORIG/2021/10346, dated 20.01.2021.

			ii. Application for withdrawal of total 199 KLD of water vide no. 21-4/509/JH/IND/2019, dated 14.10.2023.
7	Previous Environmental Clearance (EC)	:	Previous EC granted by MoEF&CC, Govt. of India vide F. No. J-11011/180/2010-IA.II (I), dated 13.07.2011.
8	Public Hearing	:	Public Hearing conducted on 09.06.2023.
9	Power Permission	:	Agreement with DVC execute dated 26.12.2022.
10	Certified Compliance Report of CTO	:	Compliance Report certified by Regional Officer, JSPCB, Dhanbad vide memo no. 904, dated 20.07.2023.
11	No Increase in Pollution Load (NIPL)	:	No Increase in Pollution Load (NIPL) issued by JSPCB vide Ref. no. B-1156, dated 17.06.2022.

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

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its **110th** meeting held on **27th, 28th & 29th 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 **“Expansion of existing plant of 36000 TPA M.S. Billets / Ingots to a final configuration of induction furnaces 2x10 T & 2x12 T (Billets / Ingots-145200 TPA) with Slag Crusher (10 TPH) – 33000 TPA, TMT Bars & Rolled Products – 165000 TPA and reheating furnace of 30 TPH (emergency use) of M/s Jai Prabhuji Iron & Steel Pvt. Ltd., Village : Kanshitanr, Tehsil : 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 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.
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 PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (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 20 12 (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) 31st March 2012 (applicable to IF/EAFF) 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 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. 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.
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 report 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, 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.
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.

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/2022-23/2710/2023/ 377**

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, 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



