



File No: J-11011/489/2009-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate
Change
IA Division



Date 11/09/2026



To,

M/s. JSW STEEL LIMITED
Vidyanagar P.O, Toranagallu Village, Sandur Taluk, Ballari District, Karnataka - 583275
E-mail: godavvarthi.jayaprakash@jsw.in

Ref: **Proposed Split /Transfer of Coke Oven 6 facility with capacity 1.5 MTPA and its associated facilities from M/s JSW Steel Limited to M/s JSW Vijayanagar Metalics Limited (JVML) at Toranagallu Village, Sandur Taluk, Ballari District, Karnataka- Consideration of splitting of EC – Reg.**

Subject: Grant of EC under the provisions of EIA notification 2006 and its amendment dated 21st April 2023

Sir/Madam,

This is in reference to your application for grant of splitting of Environmental Clearance (EC) under the provision of the EIA Notification 2006 and its amendment dated 21st April 2023- in respect of Split / Transfer of Coke Oven 6 unit of capacity 1.5 MTPA along with associated facilities from the EC of M/s JSW Steel Limited(JSWSL) to M/s JSW Vijayanagar Metalics Limited(JVML) - reg submitted to Ministry vide proposal number IA/KA/IND1/576112/2026 dated 25/05/2026.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26A1005KA5924109S
(ii) File No.	J-11011/489/2009-IA.II(I)
(iii) Clearance Type	Splitting of EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous)
(vi) Sector	IND1
(vii) Name of Project	Split / Transfer of Coke Oven 6 unit of capacity 1.5 MTPA along with associated facilities from the EC of M/s JSW Steel Limited(JSWSL) to M/s JSW Vijayanagar Metalics Limited(JVML) - reg
(viii) Name of Company/Organization	M/s. JSW STEEL LIMITED
(ix) Location of Project (District, State)	Ballari,KARNATAKA

3. The proposal was considered in the 29th meeting of EAC (Industry-1) held during 10th -12th June, 2026 and 31st EAC held during 13th – 14th July, 2026. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

Details submitted by Project proponent

4. The latest Environmental Clearance has been accorded from MoEFCC vide F.No. J-11011/489/2009-IA.II(I) dated 25.07.2024 w.r.t. Splitting of EC (29.11.2021) of M/s JSW Steel Ltd, Vijayanagar works of 18 MTPA Steel plant, 1490 MW CPP along with 2.2 MTPA Slag cement between M/s JSWSL, M/s JVML and M/s JSWCL, with a final configuration of 13 MTPA Steel, 1490 MW of CPP and 0.2 MTPA Slag cement unit will remain for M/s JSW STEEL LTD, Transfer of 5 MTPA Steel to M/s JVML and Transfer of 2 MTPA Slag Grinding Unit to Existing 4 MTPA Slag cement plant of M/s JSWCL, located at Vijayanagar works, Toranagallu, Ballari, Karnataka.

5. The instant proposal is for splitting of existing EC granted vide File no. J-11011/489/2009-IA.II(I) Dated.25.07.2024 obtained by M/s JSW Steel Limited (JSWSL) between M/s JSW Steel Limited (JSWSL) (Transferor) and JSW Vijayanagar Metalics limited (JVML)(Transferee) through transfer of Coke Oven - 6 and its associated facilities under the provisions of the EIA Notification, 2006 for the project mentioned above as detailed below:

Configuration / Capacity of Facilities with M/s JSWSL post splitting:

Sl. No.	Facility	Units	Capacity				Remarks
			As existing EC of JSWSL as per EC Dtd: 25.07.2024	per Split/ Transfer	Proposed Split/ Transfer	Final Facility Wise configuration of JSWSL after proposed Split/Transfer	
1	Ore Beneficiation Plant	OBP-1	1 X 4.5 MTPA	-		19.5 MTPA	No Change
		OBP-2	2.5 + 5.0 +7.5 MTPA	-			
2	Coke Oven	CO3	1.5 MTPA	-		6.5 MTPA	CO-6 and its associated facilities with capacity 1.5 MTPA is split from
		CO4	2 MTPA	-			

		CO5	3 MTPA	-		JSWSL and transferred to M/s JVML.	
		CO6	1.5 MTPA	Transferred to JVML			
3	Sinter Plants	SP1	2.3 MTPA	-	12.65 MTPA	No Change	
		SP2	2.3 MTPA	-			
		SP3	5.75 MTPA	-			
		SP4	2.3 MTPA	-			
4	Pellet Plants	PP1	5 MTPA	-	16.8 MTPA	No Change	
		PP2	5 MTPA	-			
		PP3	6.8 MTPA	-			
5	Hot Metal-COREX	COREX 1	0.8 MTPA	-	1.6 MTPA	No Change	
		COREX 2	0.8 MTPA	-			
6	Hot Metal - Blast Furnace	BF1	2.5 MTPA	-	12.07 MTPA	No Change	
		BF2	2.17 MTPA	-			
		BF3	4.4 MTPA	-			
		BF4	3 MTPA	-			
7	Pig Caster	PCM	1 x1200 TPD +2 x3600 TPD	-	12000 TPD	No Change	
		PCM/MGP	3600 TPD	-			
8	Crude steel	SMS1	3.8 MTPA	-	13.2 MTPA	No Change	
		SMS2	6.4 MTPA	-			
		SMS3	1.5 MTPA EAF + 1.5 MTPA ZPF	-			
9	Lime Kilns	LCP1	4x300 TPD	-	5400 TPD	No Change	
		LCP2	4x300 TPD + 3x600 TPD	-			
		LCP3	2x600 TPD	-			
10	Casters	Slab Caster 1 #	3.2 MTPA	-	15.7 MTPA	No Change	

		Slab Caster 2	6.4 MTPA	-		
		Slab Caster 3	1.6 MTPA	-		
		Billet Caster 1	1.5 MTPA	-		
		Billet Caster 2	3.0 MTPA	-		
11	Hot Strip Mills	HSM1	4.0 MTPA	-	9.2 MTPA	No Change
		HSM2	5.2 MTPA	-		
12	Pipe Mill	PM	0.4 MTPA	-	0.4 MTPA	No Change
13	Wire Rod Mill	WRM1	0.6 MTPA	-	1.8 MTPA	No Change
		WRM2	1.2 MTPA	-		
14	Rebar & Section Mills	BRM1	1.0 MTPA	-	2.2 MTPA	No Change
		BRM2	1.2 MTPA	-		
15	Cold Rolling Mills	CRM1	1.8 MTPA	-	6.4 MTPA	No Change
		CRM2	2.3 MTPA	-		
		CRM3	2.3 MTPA	-		
16	Galvanizing Lines	CGL	4x0.25 MTPA + 2 x 0.45 MTPA	-	1.9 MTPA	No Change
17	Colour Coating Line #	CTL	0.5 MTPA	-	0.5 MTPA	No Change
18	Captive Power Plants	CPP1 Gas based	100 MW	-	1490 MW	No Change
		CPP2 Gas based	130 MW	-		
		CPP3 Coal + Gas	300 MW	-		
		CPP4 Coal + Gas	300 MW	-		
		CPP5	660 MW	-		
19	Incinerator	INC	1000 kg/h	-	1000 kg/h	No Change
20	Slag Grinding and mixing	CP1	0.2 MTPA	-	0.2 MTPA	No Change

	unit								
21	Oxygen Plant (Out sourced)	-	1 x 2500 TPD	-	14860 TPD	No Change			
			4 x 1800 TPD	-					
			1 x 900 TPD	-					
			2060 TPD + 2200 TPD	-					

Configuration / Capacity of Facilities with M/s JVML post splitting:

Sl. No.	Facility	Units	Plant Capacities			Remarks
			As per existing EC of JVML	Proposed Split/Transfer	Total Capacity of M/s JVML after Split/Transfer	
1.	Sinter Plant	SP-5	1 x 2.3 MTPA	-	2.3 MTPA	No Change
2.	Blast Furnace	BF-5	1 x 4.5 MTPA	-	4.5 MTPA	No Change
3.	Steel Melting Shop	SMS-4	1 x 4.8 MTPA	-	4.8 MTPA	No Change
4.	Pig Caster	MGP	5000 TPD	-	5000 TPD	No Change
5	Slab Caster	Slab Caster - 4	1 x 5 MTPA	-	5 MTPA	No Change
6.	Lime Calcination Plant	LCP-4	3 x 600 TPD	-	1800 TPD	No Change
7.	Hot Strip Mill	HSM-3	1 x 5 MTPA	-	5 MTPA	No Change
8.	Coke Oven	CO-6	-	1 x 1.5 MTPA (Split/Transfer from JSWSL)	1.5 MTPA	CO-6 with capacity 1.5 MTPA is split/transferred from M/s JSWSL to M/s JVML

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6. **Justification for splitting of EC:** Project Proponent submitted that the proposed splitting of Environmental Clearance is necessitated to facilitate transfer of Coke Oven-6 (CO-6) and its associated facilities from M/s JSW Steel Limited (JSWSL) to its wholly owned subsidiary, M/s JSW Vijayanagar Metallica Limited (JVML), in line with business requirements and organizational restructuring. It was submitted that JVML, being a special purpose vehicle, is focused on production of value-added and special grade steel products, and the transfer of CO-6 is essential for development of an integrated steel manufacturing facility under JVML. The proposal is also aligned with the provisions of MoEF&CC Notification S.O. 1832(E) dated 21.04.2023. Further, it was submitted that post-splitting, the transferred facility will be integrated with the existing and proposed expansion facilities of JVML, wherein the capacity of CO-6 is proposed to be enhanced from 1.5 MTPA to 2.0 MTPA as part of expansion, for which separate appraisal including public hearing will be undertaken.

7. With respect to the EC splitting, the project proponent has submitted following documents.

A) Specific Documents w.r.t. M/s JSW Steel Limited (JSWSL)

- Form 12 for splitting of EC.
- Addendum to EIA/EMP Report for balance facilities of M/s JSWSL after proposed splitting of existing EC including process details, emission levels, solid and hazardous waste management, raw material and fuel requirement, the Environmental Management Plan (EMP), etc. for the project along with the relevant information as detailed in the following paragraphs.
- NOC by way of affidavit in an India non-judicial stamp dated 12.05.2026 (executed on 18.05.2026), inter-alia, stating the following:

ü that the JSWSL Board of Directors has approved the split/transfer of Coke Oven 6 and its associated facilities from the existing EC of JSWSL to JVML. JVML shall establish and operate Coke Oven 6 (CO 6) of capacity 1.5 MTPA and its associated facilities as per existing EC and can undertake proposed expansion as per the business requirement after necessary permissions from statutory authorities.

ü that M/s JSW Steel Limited has sub-leased the land w.r.t Coke Oven 6 and its associated facilities to M/s JSW Vijayanagar Metallica Limited and M/s JSW Steel Limited has entered the Memorandum of Understanding (MoU) assuring sharing of resources, utilities and common facilities for smooth operation of Coke Oven 6 and its associated facilities for the operation of ISP.

ü In synch with Board approval, M/s. JSWSL has No Objection in Split/Transfer of the Coke Oven 6 and its associated facilities from JSWSL to JVML and assure for sharing of resources, utilities and common facilities for smooth operation of Coke Oven 6 and its associated facilities.

I further agree to undertake that the Environment Responsibilities & agree to comply with the provision of Environment Protection Act and Rules, 1986 and its subsequent amendments.

- Corporate Identification Number (CIN) of the transferor (i.e., M/s JSW Steel Limited) is U27102MH2005PLC152925.

- MOU by way of affidavit in an India non-judicial stamp dated 25.05.2026 between JSWSL and JVML for 359.36 ha assuring sharing of resources, utilities and common facilities for smooth operation of Coke Oven 6 and its associated facilities for the operation of ISP.

- MOU by way of affidavit in an India non-judicial stamp dated 25.05.2026 between JSWSL and JVML for 27.55 ha assuring sharing of resources, utilities and common facilities for smooth operation of Coke Oven 6 and its associated facilities for the operation of ISP.

- Copy of Board Resolution for the meeting held on 14th May, 2026

B) Specific Documents w.r.t. M/s JSW Vijayanagar Metallics Limited (JVML)

- Undertaking from M/s. JVML by way of affidavit in an India non-judicial stamp dated 13.05.2026 stating the following:

ü that M/s JSW Vijayanagar Metallics Limited has proposed to undertake Coke Oven 6 facility to become self-reliant for its integrated steel plant including the proposed expansion upto 14 MTPA

ü that M/s JSW Steel Limited has sub-leased the land w.r.t Coke Oven 6 and its associated facilities to M/s JSW Vijayanagar Metallics Limited and M/s JSW Steel Limited has entered the Memorandum of Understanding (MoU) assuring sharing of utilities and common facilities for smooth operation of Coke Oven 6 and the ISP.

ü that M/s JSW Steel Limited has issued No Objection Certificate (NOC) to current Lessee M/s. JSW Vijayanagar Metallics Limited for undertaking that the establishment of Coke Oven 6 and its associated facilities and accordingly the lessor has filed split/ transfer of the Environment Clearance to MoEF&CC during its validity thereby transferring all the EC obligations w.r.t. Coke Oven 6 and its associated facilities to M/s. JSW Vijayanagar Limited in compliance to MoEF&CC Gazette Notification S.O. 1832(E) dated 21.04.2023.

ü M/s. JVML undertake that, they will abide and comply with all EC Responsibilities / Liabilities and statutory stipulations as per previous EC's w.r.t. to Coke Oven 6 & its associated facilities and the Environment (Protection) Act & Rules, 1986.

- Addendum EIA Report pertaining to Facilities of M/s. JVML after proposed Splitting of existing EC of M/s. JSWSL.

- CIN No. of M/s JSW Vijayanagar Metallics Limited - U27300MH2019PLC334944

- MOU by way of affidavit in an India non-judicial stamp dated 25.05.2026 between JSWSL and JVML for 359.36 ha assuring sharing of resources, utilities and common facilities for smooth operation of Coke Oven 6 and its associated facilities for the operation of ISP.

- MOU by way of affidavit in an India non-judicial stamp dated 25.05.2026 between JSWSL and JVML for 27.55 ha assuring sharing of resources, utilities and common facilities for smooth operation of Coke Oven 6 and its associated facilities for the operation of ISP.

- Copy of Board Resolution for the meeting held on 14th May, 2026

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

9. The proposal was initially considered in 29th meeting of EAC (Industry-1) held during 10th -12th June, 2026 wherein after detailed deliberation the proposal was deferred for want of additional information. The deliberations and recommendations of EAC are as follow:

Deliberations by the Committee (EAC during 10th -12th June, 2026)

The Committee noted the following:

1. The Committee deliberated on the proposal for consolidation/amalgamation of multiple Environmental Clearances (ECs) into a single EC along with associated amendments. The Committee noted that the consolidation of ECs entails integration of conditions and stipulations from various clearances granted over time, and therefore requires a comprehensive assessment of the compliance status of all existing ECs. The Committee further noted that the Project Proponent has reported that the Certified Compliance Report (CCR) is under finalization by the Integrated Regional Office, MoEF&CC. In the absence of the finalized

CCR, the Committee was of the view that the proposal cannot be appraised in a holistic manner. Accordingly, the Committee advised the Project Proponent to submit the finalized Certified Compliance Report for further consideration.

Recommendations of the Committee (EAC during 10th -12th June, 2026):

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

10. Accordingly, M/s JSW Steel Limited submitted the ADS reply vide letter dated 29.06.2026 uploaded on PARIVESH on 29.06.2026. Point-wise reply of ADS is given as below:

Sr.	ADS	Reply by JSWSL
1.	The Committee deliberated on the proposal for consolidation/amalgamation of multiple Environmental Clearances (ECs) into a single EC along with associated amendments. The Committee noted that the consolidation of ECs entails integration of conditions and stipulations from various clearances granted over time, and therefore requires a comprehensive assessment of the compliance status of all existing ECs. The Committee further noted that the Project Proponent has reported that the Certified Compliance Report (CCR) is under finalization by the Integrated Regional Office, MoEF&CC. In the absence of the finalized CCR, the Committee was of the view that the proposal cannot be appraised in a holistic manner. Accordingly, the Committee advised the Project Proponent to submit the finalized Certified Compliance Report for further consideration.	As advised by committee, we have uploaded the Certified Compliance Report of JSW Steel Limited from MoEF&CC, IRO, Bengaluru on the PARIVESH portal. Additionally, ATR action report/Review report by IRO has also been uploaded in Portal. The details are incorporated in the relevant para above.

11. Based on the above submission of PP, the proposal was reconsidered during the 31st Meeting of the EAC (Industry-1) held on 13th -14th July, 2026. The deliberations and recommendations of EAC are as follows:

Deliberations by the Committee

12. The Committee noted the following:

- i. M/s JSW Steel Limited (JSWSL) was granted Environmental Clearance for splitting of the existing EC

vide File No. J-11011/489/2009-IA.II(I) dated 25.07.2024, whereby the facilities of the Integrated Steel Plant were distributed between M/s JSW Steel Limited, M/s JSW Vijayanagar Metalics Limited (JVML) and M/s JSW Cement Limited.

ii. The instant proposal is for splitting of existing EC granted vide File no. J-11011/489/2009-IA.II(I) Dated.25.07.2024 obtained by M/s JSW Steel Limited (JSWSL) between M/s JSW Steel Limited (JSWSL) (Transferor) and JSW Vijayanagar Metalics limited (JVML)(Transferee) through transfer of Coke Oven - 6 and its associated facilities under the provisions of the EIA Notification, 2006 for the project mentioned above as detailed in relevant para above.

iii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

iv. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

v. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.

vi. The EAC deliberated on the comparison of the key features between the previous EIA/ EMP Report presented during the appraisal of earlier EC and the Addendum EIA/EMP report in the current proposal to ensure there are no discrepancies and found the submission of PP satisfactory.

vii. The Committee noted that the proposal is limited to transfer of Coke Oven-6 and its associated facilities from JSWSL to JVML. No increase in production capacity, change in technology, additional land requirement or increase in pollution load is involved under the instant proposal.

viii. The Project Proponent submitted that the proposed transfer is necessitated as part of business restructuring, wherein JVML is being developed as an integrated steel manufacturing entity. The transferred Coke Oven-6 shall cater to the coking requirement of JVML's existing and proposed steel manufacturing facilities. Any future enhancement in the capacity of Coke Oven-6 shall be undertaken only after obtaining separate Environmental Clearance in accordance with the EIA Notification, 2006.

ix. The Committee noted that JSWSL and JVML have submitted Board approvals, No Objection Certificates, undertakings, Memorandum of Understanding for sharing of common infrastructure, utilities and services, land sub-lease documents and Addendum EIA/EMP Reports in support of the proposal.

x. The EAC examined the Addendum EIA/EMP Reports submitted for both JSWSL and JVML, including the project information matrix, environmental management plan, pollution load distribution, raw material requirement, water and power requirement, waste management, environmental responsibility matrix and

common utility sharing mechanism.

xi. The Committee noted that the proposed transfer does not alter the overall environmental impacts already appraised under the existing Environmental Clearance and only redistributes the environmental responsibilities corresponding to the transferred Coke Oven-6 facility between the Transferor and the Transferee.

xii. The EAC deliberated on the revised pollution load assessment submitted by the Project Proponent and observed that the pollution load attributable to Coke Oven-6 has been correspondingly reduced from JSWSL and transferred to JVML, without resulting in any net increase in pollution load beyond the approved Environmental Clearance.

xiii. The Committee deliberated on the revised environmental responsibility matrix and observed that appropriate responsibility for compliance of Environmental Clearance conditions has been assigned between JSWSL and JVML based on ownership and operation of respective facilities.

xiv. The Committee noted that common infrastructure and utilities including raw material handling, conveyors, water supply, power supply and other common services shall continue to be shared between JSWSL and JVML through legally enforceable Memoranda of Understanding.

xv. The Committee was of the view that the instant proposal is essentially an administrative restructuring of the existing Environmental Clearance consequent to business reorganization and does not involve appraisal of any new activity or expansion requiring fresh environmental assessment.

xvi. The EAC advised PP that they need to ensure that both the entities shall have relevant amendments related to land, FC/CTE/CTO and associated permissions required to operate such facilities.

xvii. The EAC advised PP to ensure that there shall be sign boards at prominent locations covering name, capacity and area of the operating units within the Complex along with EC/CFO details.

xviii. The EAC also advised PP to widely publicize the executive summary of the EC split proposal and publish the split ECs in local newspapers.

xix. The EAC is of the opinion that all the entities shall undertake Village Adoption programme as committed.

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

Recommendations of the Committee:

13. After deliberations, the Committee **recommended** the proposal for splitting of existing EC granted vide File no. J-11011/489/2009-IA.II(I) Dated.25.07.2024 obtained by M/s JSW Steel Limited (JSWSL)

between M/s JSW Steel Limited (JSWSL) (Transferor) and JSW Vijayanagar Metalics limited (JVML)(Transferee) through transfer of Coke Oven - 6 and its associated facilities under the provisions of the EIA Notification, 2006, as per the details mentioned in the summary of the proposal above, subject to additional terms and conditions.

Decision of MoEF&CC

14. The undersigned is directed to inform that Ministry of Environment, Forest and Climate Change has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1) hereby decided to accord splitting of existing EC as mentioned in Para 5 subject to additional terms and conditions (**Annexure-I**).

15. Summary of changes arising out of the EC amendment followed by the part transfer of the facilities are at **Annexure-II (Project Information Matrix), Annexure-III (EC Responsibility Matrix) and Annexure-IV (Environmental Liability Matrix)**.

16. Implementation status of the existing EC is at **Annexure-V**.

17. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

18. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

19. 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.

20. 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.

21. This issues with approval of the competent authority.

(Dr. Sonu Singh)
Scientist 'E'/Additional Director
Tel: 011-20819346
E-mail: sonu.singh@nic.in

Copy to: -

1. The Secretary, Forest, Environment & Ecology Department, Karnataka Government Secretariat, Room No. 448, 4th Floor, Gate No. 2, M. S. Building, Bangalore-560001.
2. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore – 560034. E-mail: rosz.bng-mef@nic.in
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Chief Wildlife Warden, Karnataka Forest Department, Government of Karnataka. Aranya Bhawan, 2nd floor, 18th Cross, Maleshwaram, Bangalore-560003.
5. The Chairman, Karnataka State Pollution Control Board, Parisara Bhavana, No#49, Church Street , Bengaluru – 560001. E-mail: chairman@kspcb.gov.in ms@kspcb.gov.in
6. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
7. The Deputy Commissioner, Deputy Commissioner's Office, Ballari, Karnataka.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
8. Guard File/Monitoring File/Website/Record File/Parivesh Portal.

Copy To

N/A

Annexure 1

Specific EC Conditions for (Metallurgical Industries (ferrous and non ferrous))

1. Specific

S. No	EC Conditions
1.1	M/s JSW Steel Limited and M/s JSW Vijayanagar Metalics Limited shall strictly comply with all commitments, undertakings and affidavits submitted to the Ministry in support of the proposal.
1.2	M/s JSW Vijayanagar Metalics Limited shall assume complete environmental responsibility for Coke Oven-6 and its associated facilities from the date of issuance of the split Environmental Clearance.
1.3	The resource sharing arrangements between JSWSL and JVML, including common infrastructure, utilities and environmental management facilities, shall remain valid throughout the operational

S. No	EC Conditions
	period and shall not adversely affect environmental compliance.
1.4	The PP shall ensure that both the entities shall have relevant permissions related to land, EC/FC/CTE/CTO and associated permissions required to operate such facilities.
1.5	Project Proponent shall continue to comply with all directions issued by the Integrated Regional Office, State Pollution Control Board, and the MoEF&CC to ensure full compliance with partially / non-complied conditions.
1.6	The PP shall ensure that there shall be sign boards at prominent locations covering name, capacity and area of the operating units within the Complex along with EC/ CFO details.
1.7	The PP shall comply with the condition for development and maintenance of greenbelt in at least 33% area of the complex as principal lessor.
1.8	The PP shall widely publicize the executive summary of the EC split proposal and publish the split ECs in local newspapers.
1.9	Both the entities shall undertake Village Adoption programme in consultation with the State Administration.
1.10	The respective entities, shall strictly comply with the commitments made in the form of undertakings.
1.11	The validity of the ECs under reference, for the purpose of assessing the implementation schedule of unit components/ configurations covered therein, shall be governed as per the date of issuance of the base ECs. The instant EC is issued for splitting only, and it shall not extend the EC validity period.
1.12	The environmental responsibility matrix submitted by the Project Proponent shall form an integral part of the split Environmental Clearance, and each entity shall remain individually responsible for compliance of the conditions assigned therein
1.13	PP shall complete physical demarcation of boundaries of JSWSL and JVML within the committed timeline and submit compliance report to MoEF&CC/Regional Office.
1.14	The splitting of EC shall not be construed as waiver of any ongoing regulatory proceedings, statutory obligations or compliance requirements under applicable environmental laws.
1.15	The proposed splitting of Environmental Clearance shall not be construed as approval for any enhancement in the capacity of Coke Oven-6. Any future expansion shall require separate prior Environmental Clearance in accordance with the EIA Notification, 2006.

Additional EC Conditions

Not Applicable

Summary of changes arising out of the EC amendment followed by the part transfer of the facilities

Project Information Matrix

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
1	Ore beneficiation Plant – 19.5 MTPA (Product) • OBP1 – 1 x 2.5 MTPA • OBP2 – 1 x 5.0 MTPA + 1 x 7.5 MTPA + 1 x 4.5 MTPA	Ore beneficiation Plant – 19.5 MTPA (Product) • OBP1 – 1 x 2.5 MTPA • OBP2 – 1 x 5.0 MTPA + 1 x 7.5 MTPA + 1 x 4.5 MTPA	Nil	Nil	Nil
2	Sinter Plants – 12.65 MTPA (Total) • SP1 - 2.3 MTPA • SP2 - 2.3 MTPA • SP3 - 5.75 MTPA • SP4 - 2.3 MTPA	Sinter Plants – 12.65 MTPA (Total) • SP1 - 2.3 MTPA • SP2 - 2.3 MTPA • SP3 - 5.75 MTPA • SP4 - 2.3 MTPA	Sinter Plants – 2.3 MTPA (Total) • SP5 - 2.3 MTPA	Sinter Plants – 2.3 MTPA (Total) • SP5 - 2.3 MTPA	Nil
3	Pellet Plants – 16.8 MTPA (Total) • PP1 – 5 MTPA • PP2 – 5 MTPA • PP3 – 6.8 MTPA	Pellet Plants – 16.8 MTPA (Total) • PP1 – 5 MTPA • PP2 – 5 MTPA • PP3 – 6.8 MTPA	Nil	Nil	Nil
4	Coke Ovens – 8 MTPA (Total) • CO3 – 1.5 MTPA • CO4 – 2 MTPA • CO5 – 3 MTPA	Coke Ovens – 6.5 MTPA (Total) • CO3 – 1.5 MTPA • CO4 – 2 MTPA	Nil	Coke Oven 6 – 1.5 MTPA (Total) CO6 – 1.5 MTPA (Split/Transfer	The Coke Oven – 6 of 1.5 MTPA capacity will be splitted

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	• CO6 – 1.5 MTPA	• CO5 – 3 MTPA		from EC of JSW Steel Limited)	from JSWSL and transferred to M/s JVML.
5	Hot Metal COREX – 1.6 MTPA (Total) • COREX1 – 0.8 MTPA • COREX2 – 0.8 MTPA	Hot Metal COREX – 1.6 MTPA (Total) • COREX1 – 0.8 MTPA • COREX2 – 0.8 MTPA	Nil	Nil	Nil
6	Hot Metal- Blast Furnace – 12.07 MTPA (Total) • BF1 - 2.5 MTPA • BF2 - 2.17 MTPA • BF3 - 4.4 MTPA • BF4 - 3 MTPA	Hot Metal- Blast Furnace – 12.07 MTPA (Total) • BF1 - 2.5 MTPA • BF2 - 2.17 MTPA • BF3 - 4.4 MTPA • BF4 - 3 MTPA	Hot Metal- Blast Furnace – 4.5 MTPA (Total) • BF5 - 4.5 MTPA	Hot Metal- Blast Furnace – 4.5 MTPA (Total) • BF5 - 4.5 MTPA	Nil
7	Pig Casters + Metal Granulation Plant (MGP) – 12000 TPD (Total) • Pig Caster - 1 x 1200 TPD + 2 x 3600 TPD • Metal Granulation Plant (MGP) – 3600 TPD	Pig Casters + Metal Granulation Plant (MGP) – 12000 TPD (Total) • Pig Caster - 1 x 1200 TPD + 2 x 3600 TPD • Metal Granulation Plant (MGP) – 3600 TPD	Metal Granulation Plant (MGP) – 5000 TPD (Total) • MGP - 1 x 5000 TPD	Metal Granulation Plant (MGP) – 5000 TPD (Total) • MGP - 1 x 5000 TPD	Nil

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
8	Steel Melting Shops (SMS) – 13.2 MTPA (Total) • SMS1 - 3.8 MTPA BOF • SMS2 - 6.4 MTPA BOF • SMS3 - 1.5 MTPA EAF + 1.5 MTPA ZPF	Steel Melting Shops (SMS) – 13.2 MTPA (Total) • SMS1 - 3.8 MTPA BOF • SMS2 - 6.4 MTPA BOF • SMS3 - 1.5 MTPA EAF + 1.5 MTPA ZPF	Steel Melting Shops (SMS) – 4.8 MTPA (Total) • SMS4 - 4.8 MTPA BOF	Steel Melting Shops (SMS) – 4.8 MTPA (Total) • SMS4 - 4.8 MTPA BOF	Nil
9	Lime Kilns – 5400 TPD (Total) • LCP1 - 4X300 TPD • LCP2 - 4X300 TPD + 3X600 TPD • LCP3 - 2X600 TPD	Lime Kilns – 5400 TPD (Total) • LCP1 - 4X300 TPD • LCP2 - 4X300 TPD + 3X600 TPD • LCP3 - 2X600 TPD	Lime Kilns – 1800 TPD (Total) • LCP4 - 3X600 TPD	Lime Kilns – 1800 TPD (Total) • LCP4 - 3X600 TPD	Nil
10	Continuous Casters – 15.7 MTPA (Total) • Slab Caster 1 - 3.2 MTPA • Slab Caster 2 - 6.4 MTPA • Slab Caster 3 - 1.6 MTPA • Billet Caster 1 - 1.5 MTPA • Billet Caster 2 - 3.0 MTPA	Continuous Casters – 15.7 MTPA (Total) • Slab Caster 1 - 3.2 MTPA • Slab Caster 2 - 6.4 MTPA • Slab Caster 3 - 1.6 MTPA • Billet Caster 1 - 1.5 MTPA • Billet Caster 2 - 3.0 MTPA	Continuous Casters – 5.0 MTPA (Total) • Slab Caster 4 - 5.0 MTPA	Continuous Casters – 5.0 MTPA (Total) • Slab Caster 4 - 5.0 MTPA	Nil

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
11	Hot Strip Mills – 9.2 MTPA (Total) • HSM1 - 4.0 MTPA • HSM2 - 5.2 MTPA	Hot Strip Mills – 9.2 MTPA (Total) • HSM1 - 4.0 MTPA • HSM2 - 5.2 MTPA	Hot Strip Mills – 5.0 MTPA (Total) • HSM3 - 5.0 MTPA	Hot Strip Mills – 5.0 MTPA (Total) • HSM3 - 5.0 MTPA	Nil
12	Pipe Mill - 1 X 0.4 MTPA	Pipe Mill - 1 X 0.4 MTPA	Nil	Nil	Nil
13	Wire Rod Mill – 1.8 MTPA (Total) • WRM1 - 0.6 MTPA • WRM2 - 1.2 MTPA	Wire Rod Mill – 1.8 MTPA (Total) • WRM1 - 0.6 MTPA • WRM2 - 1.2 MTPA	Nil	Nil	Nil
14	Rebar & Section Mills – 2.2 MTPA (Total) • BRM1 - 1.0 MTPA • BRM2 - 1.2 MTPA	Rebar & Section Mills – 2.2 MTPA (Total) • BRM1 - 1.0 MTPA • BRM2 - 1.2 MTPA	Nil	Nil	Nil
15	Cold Rolling Mills – 6.4 MTPA (Total) • CRM1 - 1.8 MTPA • CRM2 - 2.3 MTPA • CRM3 - 2.3 MTPA	Cold Rolling Mills – 6.4 MTPA (Total) • CRM1 - 1.8 MTPA • CRM2 - 2.3 MTPA • CRM3 - 2.3 MTPA	Nil	Nil	Nil
16	Galvanizing Lines – 1.9 MTPA (Total) • CGL1 – 4 x 0.25 MTPA	Galvanizing Lines – 1.9 MTPA (Total) • CGL1 – 4 x 0.25 MTPA	Nil	Nil	Nil

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	• CGL2 – 2 x 0.45 MTPA	• CGL2 – 2 x 0.45 MTPA			
17	Colour Coating Line – 0.5 MTPA	Colour Coating Line – 0.5 MTPA	Nil	Nil	Nil
18	Captive Power Plants – 1490 MW (Total) • CPP1 (Gas based) - 100 MW • CPP2 (Gas based) - 130 MW • CPP3 (Coal + Gas based) - 300 MW • CPP4 (Coal + Gas based) - 300 MW • CPP5 (Coal based) - 660 MW	Captive Power Plants – 1490 MW (Total) • CPP1 (Gas based) - 100 MW • CPP2 (Gas based) - 130 MW • CPP3 (Coal + Gas based) - 300 MW • CPP4 (Coal + Gas based) - 300 MW • CPP5 (Coal based) - 660 MW	Nil	Nil	Nil
19	Incinerator – 1000 kg/hr	Incinerator – 1000 kg/hr	Nil	Nil	Nil
20	Slag Grinding and mixing unit – 0.2 MTPA (Total) • CP1 – 1 x 0.2 MTPA	Slag Grinding and mixing unit – 0.2 MTPA (Total) CP1 – 1 x 0.2 MTPA	Nil		
21	Oxygen Plant – 14860 TPD (Total) • 1 x 2500 TPD • 4 x 1800 TPD • 1 x 900 TPD • 1 x 2060 TPD • 1 x 2200 TPD	Oxygen Plant – 14860 TPD (Total) • 1 x 2500 TPD • 4 x 1800 TPD • 1 x 900 TPD • 1 x 2060 TPD • 1 x 2200 TPD	Nil	Nil	Nil
22	Plant Capacity • Crude Steel - 13 MTPA	Plant Capacity • Crude Steel - 13 MTPA	Plant Capacity • Crude Steel - 5 MTPA	Plant Capacity • Crude Steel - 5 MTPA	Nil

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	• Captive Power - 1490 MW • Slag Cement - 0.2 MTPA	• Captive Power - 1490 MW • Slag Cement - 0.2 MTPA			
23	Final Products - • HR Coils • CR Coils • MG/Slabs • Wire Rods • Rebars • Beams • Billets • Slabs • Slag Cement	Final Products - • HR Coils • CR Coils • MG/Slabs • Wire Rods • Rebars • Beams • Billets • Slabs • Slag Cement	Final Products - • HR Coils • MG • Slabs	Final Products - • HR Coils • MG • Slabs	Nil
24	Land Details • Total Area - 2630.6 ha • Greenbelt Area - 870 ha Note: The revised total area is excluding the following (i) 60.7 ha which is sub leased to JSW CEMENT LIMITED. (ii) 205.78 ha	Land Details • Total Area – 2460.58 ha • Greenbelt Area – 834.84 ha Note: The revised total area is excluding the following i.60.7 ha which is sub leased to JSW CEMENT LIMITED. ii.205.78 ha which is sub leased to other	Land Details • Total Area - 337.1 ha • Greenbelt Area - 111 ha	Land Details - Total Area – 386.91 Ha. - Greenbelt Area – 127.8 Ha.	The area of Coke Oven 6 facilities (27.55 Ha), Jindal Vijayanagar Airport(120.2 Ha) and additional area sub-leased to JVML for proposed expansion (22.26 Ha) is reduced from the existing area of JSWSL.

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	which is sub leased to other JSW group companies located inside the complex. (iii) 337.1 ha proposed to sub lease to JSW VIJAYANAGAR METALLICS LIMITED.	JSW group companies located inside the complex. iii.386.91 ha proposed to sub lease to JSW VIJAYANAGAR METALLICS LIMITED. iv.120.2 Ha. sub-leased to Jindal Vijayanagar Airport			
25	Co-ordinates Latitudes (North) – From 15°9'21.31"N- 15°12'7.68"N Longitudes (East) – From 76°37'4.75" - 76°44'1.93"E	Co-ordinates Latitudes (North) – From 15°9'21.31"N- 15°12'7.68"N Longitudes (East) – From 76°37'4.75" - 76°44'1.93"E	Co-ordinates Latitudes (North) – From 15°10'32.84"N - 15°11'14.70"N Longitudes (East) – From 76°41'19.91"E - 76°42'19.85"E	Co-ordinates Latitudes (North) – From 15°10'32.84"N - 15°11'14.70"N Longitudes (East) – From 76°41'19.91"E - 76°42'19.85"E	
26	Raw Material - Iron ore fines - 2,43,87,500 - Iron ore lumps - 10,27,500 - Coking coal - 1,08,00,000 - COREX coal - 11,20,000	Raw Material - Iron ore fines - 2,43,87,500 - Iron ore lumps- 10,27,500 - Coking coal – 84,75,000 - COREX coal -	Raw Materials - Iron ore lumps – 3,82,500 - PCI coal – 6,75,000 - Lime/dolo stone LCP – 14,25,019 - Dolomite Agg –	Raw Materials - Iron ore lumps – 3,82,500 - PCI coal – 6,75,000 - Lime/dolo stone LCP – 14,25,019 - Dolomite Agg –	As the CO-6 is being splitted and transferred to JVML, Raw materials pertaining to Coke Oven - 6 i.e. Coking coal and

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	• PCI coal - 26,39,000 • Anthracite coal - 4,30,000 • Limestone LCP - 34,57,511 • Limestone Agg - 9,58,236 • Dolomite Agg - 4,69,855 • Ind. limestone - 34,336 • Ind. dolomite - 10,14,346 • Dolomite LCP - 15,13,081 • Ind. quartz - 7,24,596 • Bentonite - 1,00,000 • Thermal Coal - 47,50,000	• 11,20,000 • PCI coal- 26,39,000 • Anthracite coal - 4,30,000 • Limestone LCP - 34,57,511 • Limestone Agg - 9,58,236 • Dolomite Agg - 4,69,855 • Ind. Limestone - 34,336 • Ind. Dolomite - 10,14,346 • Dolomite LCP - 15,13,081 • Ind. quartz - 724,596 • Bentonite - 1,00,000 • Thermal Coal - 47,50,000 • Pet Coke (<3% S) (CO 3, 4 and 5) – 9,28,000 (As approved by KSPCB, Director General of Foreign Trade (DGFT) – Copy of CFO and permission from DGFT enclosed.	• 2,58,492 • Ind Dolomite – 1,01,080 • Ind. quartz – 22,357 • Beneficiated Iron ore fines – 15,27,715 • Pellet - 51,67,500 • Coke - 15,75,000 • Coke breeze - 1,27,061 • Purchased scrap – 3,00,000 • Purchased Slabs – 2,66,327	• 2,58,492 • Ind Dolomite – 1,01,080 • Ind. quartz – 22,357 • Beneficiated Iron ore fines – 15,27,715 • Pellet - 51,67,500 • Coke - 15,75,000 • Coke breeze - 1,27,061 • Purchased scrap – 3,00,000 • Purchased Slabs – 2,66,327 • Coking coal – 23,25,000 • Pet Coke(<3% S) – 2,32,500(10% of Feed Stock to replace Coking coal, based on availability)	Petcoke is being reduced from existing JSWSL raw material
27	Raw Material Interdependence • JSWSL Procures Raw material for both JSWSL and JVML, for making Steel.	Raw Material Interdependence • JSWSL Procures Raw material for both JSWSL and JVML, for making Steel.	Raw Material Interdependence • The Materials required for preparation of Steel is sourced from JSWSL.	Raw Material Interdependence • The Materials required for preparation of Steel is sourced from JSWSL.	Nil

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	- The beneficiation is done inside the Beneficiation plant of JSWSL and is transferred to JVML - The material transfer from JSWSL to JVML is through either Conveyors/ Wagons. - The conveyors/ Wagons are managed and owned by JSWSL	- The beneficiation is done inside the Beneficiation plant of JSWSL and is transferred to JVML - The material transfer from JSWSL to JVML is through either Conveyors/ Wagons. - The conveyors/ Wagons are managed and owned by JSWSL	JVML has resource sharing agreement with JSWSL	JVML has resource sharing agreement with JSWSL	
28	Water Requirement : - Total - 2,78,076 m³/day - ISP - 1,21,541 m³/day	Water Requirement : - Total - 2,78,076 m³/day - ISP - 1,17,843 m³/day	Water Requirement : JVML- 22,824 m³/day	Water Requirement JVML : 26522 m ³ /day	The water requirement pertaining to CO-6 i.e. 3698 m ³ /day is being reduced from JSWSL and transferred to JVML
29	Power Requirement: 1186 MW	Power Requirement: 1172 MW	Power Requirement : 235 MW	Power Requirement: 249 MW	Power requirement pertaining to CO-6 is being reduced from JSWSL and transferred to JVML

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
30	Fuel Requirement • Coke Oven gas (COG) - 279 K Nm3/hr • BF Gas (BFG) - 1914 K Nm3/hr • COREX Gas - 315 K Nm3/hr • DRI Gas- 200 K Nm3/hr • LD Gas - 128 K Nm3/hr	Fuel Requirement • Coke Oven gas (COG) - 229 K Nm3/hr • BF Gas (BFG)-1774 K Nm3/hr • COREX Gas -315 K Nm3/hr • DRI Gas - 200 K Nm3/hr • LD Gas - 128 K Nm3/hr	Fuel Requirement • Coke Oven gas (COG) – 68 K Nm3/hr • BF Gas (BFG) – 826 K Nm3/hr • LD Gas – 56 K Nm3/hr	Fuel Requirement • Coke Oven gas (COG) - 118 K Nm3/hr • BF Gas (BFG) - 966 K Nm3/hr • LD Gas – 56 K Nm3/hr	Fuel requirement pertaining to CO-6 is being reduced from JSWSL and transferred to JVML
31	Pollutant Load Stack emission • PM – 676.3 g/s • PM2.5 – 181.3 g/s • SO2 – 1817.4 g/s • NOx – 1610.5 g/s Fugitive Emission PM10 – 1.787 g/s PM2.5 – 0.7 g/s b) Transport PM10 – 1 g/s	Pollutant Load Stack emission • PM - 666.56 g/s • PM2.5 - 176.04 g/s • SO2 - 1750.8 g/s • NOx - 1543.6 g/s Fugitive Emission PM10 – 1.787 g/s PM2.5 – 0.7 g/s b) Transport PM10 – 1 g/s	Pollutant Load a) Stack emission • PM – 96.6 g/s • PM2.5 – 58.6 g/s • SO2 – 95.5 g/s • NOx – 79.3 g/s Fugitive Emission All the raw materials are being handled by JSWSL Transport All the raw materials are being handled by JSWSL	Pollutant Load (CO-6) Stack Emission • PM - 9.74 g/s • PM2.5 - 5.26 g/s • SO2 - 66.6 g/s • NOx - 66.9 g/s Pollution Load after split/Transfer • PM – 106.34 g/s • PM2.5 – 63.86 g/s • SO2 – 162.1 g/s • NOx – 146.2 g/s Fugitive Emission All the raw materials are being handled by JSWSL	Pollution load pertaining to CO-6 is being reduced from JSWSL and transferred to JVML

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
				Transport All the raw materials are being handled by JSWSL	
32	Air pollution control Devices • Bag filter-69 • ESP -11 • Scrubber-30 • Dispersion stacks-33	Air pollution control Devices • Bag filter-69 • ESP -11 • Scrubber-30 • Dispersion stacks-33	Air pollution control Devices • Bag filter-8 • ESP -1 • Scrubber-1 • Dispersion stacks-4	Air pollution control Devices • Bag filter-8 • ESP -1 • Scrubber-1 • Dispersion stacks-4	Nil
ENVIRONMENTAL MANAGEMENT PLAN					
33	Air Pollution Control Measures • Design limit for dust emission from bag filters -< 30 mg/nm³ • Additional high-performance bag filters in all sinter plants, with emission limit of < 10 mg/nm³ • High efficiency ESPs along with bag filters in pellet plant to limit dust to < 10 mg/nm³	Air Pollution Control Measures • Design limit for dust emission from bag filters -< 30 mg/nm³ • Additional high-performance bag filters in all sinter plants, with emission limit of < 10 mg/nm³ • High efficiency ESPs along with bag filters in pellet plant to limit dust to < 10 mg/nm³ • Charging emission control by SOPRECO • Emission reduction	Air Pollution Control Measures • Design limit for dust emission from bag filters -< 30 mg/nm³ • Emission reduction via high performance ESP in Sinter Plant. PM emission <10mg/Nm³ • Dry fogging and bag filter based Dust Extraction system in material handling • Waste gas	Air Pollution Control Measures • Design limit for dust emission from bag filters -< 30 mg/nm³ • Emission reduction via high performance ESP in Sinter Plant. PM emission <10mg/Nm³ • Dry fogging and bag filter based Dust Extraction system in	

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	- Charging emission control by SOPRECO - Emission reduction via MEROS in Sinter Plant - Dry fogging and bag filter based Dust Extraction system in material handling - Charging and pushing Emission control in coke ovens - Low NOx stage combustion burners in under-firing - Low NOx stage combustion burners in HSM	- via MEROS in Sinter Plant - Dry fogging and bag filter based Dust Extraction system in material handling - Charging and pushing Emission control in coke ovens - Low NOx stage combustion burners in under-firing - Low NOx stage combustion burners in HSM	- recycling for energy efficiency improvement. - Dog house for primary extraction and Secondary dedusting system with bag filters - Low NOx stage combustion burners in HSM	- material handling - Waste gas recycling for energy efficiency improvement. - Dog house for primary extraction and Secondary dedusting system with bag filters - Low NOx stage combustion burners in HSM - Charging emission control by SOPRECO	
	Noise Pollution Control Measures - Plugging leakages in high-pressure gas/air pipelines. - Reducing vibration of high speed rotating machines by regular monitoring of vibration and taking necessary	Noise Pollution Control Measures - Plugging leakages in high-pressure gas/air pipelines. - Reducing vibration of high speed rotating machines by regular monitoring of vibration and taking necessary steps. - Design of absorber system for the shift	Noise Pollution Control Measures - Plugging leakages in high-pressure gas/air pipelines. - Reducing vibration of high speed rotating machines by regular monitoring of vibration and taking necessary steps. - Design of absorber	Noise Pollution Control Measures - Plugging leakages in high-pressure gas/air pipelines. - Reducing vibration of high speed rotating machines by regular monitoring of vibration and	

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	steps. • Design of absorber system for the shift office and pulpit operator's cabin. • Noise absorber systems in pump houses. • Noise level at 1m from equipment will be limited to 85 dB (A). • The fans and ductwork will be designed for minimum vibration. • All the equipment in different units will be designed/operated in such a way that the noise level shall not exceed 85 dB (A). • Periodical monitoring of work zone noise and outside plant premises. • Un-manned high noise zone will be marked as "High Noise Zone". • In shops where measures are not feasible, attempts shall be made to	office and pulpit operator's cabin. • Noise absorber systems in pump houses. • Noise level at 1m from equipment will be limited to 85 dB (A). • The fans and ductwork will be designed for minimum vibration. • All the equipment in different units will be designed/operated in such a way that the noise level shall not exceed 85 dB (A). • Periodical monitoring of work zone noise and outside plant premises. • Un-manned high noise zone will be marked as "High Noise Zone". • In shops where measures are not feasible, attempts shall be made to provide operators with sound-proof enclosure to operate the system. • Workers exposed to noise level will be provided with	system for the shift office and pulpit operator's cabin. • Noise absorber systems in pump houses. • Noise level at 1m from equipment will be limited to 85 dB (A). • The fans and ductwork will be designed for minimum vibration. • All the equipment in different units will be designed/operated in such a way that the noise level shall not exceed 85 dB (A). • Periodical monitoring of work zone noise and outside plant premises. • Un-manned high noise zone will be marked as "High Noise Zone". • In shops where measures are not feasible, attempts shall be made to provide operators with sound-proof enclosure to	taking necessary steps. • Design of absorber system for the shift office and pulpit operator's cabin. • Noise absorber systems in pump houses. • Noise level at 1m from equipment will be limited to 85 dB (A). • The fans and ductwork will be designed for minimum vibration. • All the equipment in different units will be designed/operated in such a way that the noise level shall not exceed 85 dB (A). • Periodical monitoring of work zone noise and outside plant premises. • Un-manned high noise zone will be marked as "High Noise	

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	provide operators with sound-proof enclosure to operate the system. - Workers exposed to noise level will be provided with protection devices like earmuffs and will be advised to use them regularly, while at work. - Workers exposed to noisy work place shall be provided with rotational duties. - All workers will be regularly checked medically for any noise related health problem and if detected, they will be provided with alternative duty.	protection devices like earmuffs and will be advised to use them regularly, while at work. - Workers exposed to noisy work place shall be provided with rotational duties. - All workers will be regularly checked medically for any noise related health problem and if detected, they will be provided with alternative duty.	operate the system. - Workers exposed to noise level will be provided with protection devices like earmuffs and will be advised to use them regularly, while at work. - Workers exposed to noisy work place shall be provided with rotational duties. - All workers will be regularly checked medically for any noise related health problem and if detected, they will be provided with alternative duty	Zone". - In shops where measures are not feasible, attempts shall be made to provide operators with sound-proof enclosure to operate the system. - Workers exposed to noise level will be provided with protection devices like earmuffs and will be advised to use them regularly, while at work. - Workers exposed to noisy work place shall be provided with rotational duties. - All workers will be regularly checked medically for any noise related health problem and if detected, they will be provided with alternative duty	

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	Effluents Generation And Management Measures • Zero Liquid Discharge outside plant boundary • Effluent generated from coke ovens would be separately treated in Biological Oxidation and Dephenolization (BOD) treatment unit for removal of phenolic compounds and cyanide • Cooling tower blow downs and treated effluent from BOD plant of coke ovens would be taken to the CETP for further treatment and reuse as make-up water. • Treatment of	Effluents Generation And Management Measures • Zero Liquid Discharge outside plant boundary • Effluent generated from coke ovens would be separately treated in Biological Oxidation and Dephenolization (BOD) treatment unit for removal of phenolic compounds and cyanide • Cooling tower blow downs and treated effluent from BOD plant of coke ovens would be taken to the CETP for further treatment and reuse as make-up water. • Treatment of plant sanitary waste water including canteen effluent in a sewage treatment plant for separation of floating	Effluents Generation And Management Measures • Zero Liquid Discharge outside plant boundary • Cooling tower blow downs would be taken to the CETP for further treatment and reuse as make- up water. • Waste Water generated in Wet GCP, CCM and HSM will be treated in dedicated Effluent Treatment Plants and treated water will be recycled back in plant process. • Treatment of plant sanitary waste water including canteen effluent in a sewage treatment plant for	Effluents Generation And Management Measures • Zero Liquid Discharge outside plant boundary • Cooling tower blow downs would be taken to the CETP for further treatment and reuse as make-up water. • Waste Water generated in Wet GCP, CCM and HSM will be treated in dedicated Effluent Treatment Plants and treated water will be recycled back in plant process. • Treatment of plant sanitary	

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	plant sanitary waste water including canteen effluent in a sewage treatment plant for separation of floating oil and reduction of BOD level	oil and reduction of BOD level	separation of floating oil and reduction of BOD level	waste water including canteen effluent in a sewage treatment plant for separation of floating oil and reduction of BOD level • Effluent generated from coke ovens would be separately treated in Biological Oxidation and Dephenolization (BOD) treatment unit for removal of phenolic compounds and cyanide	
	Water treating facilities • ETP-9 • STP-5	Water treating facilities • ETP-9 • STP-5	Water treating facilities • ETP-2 • STP-1	Water treating facilities • ETP-2 • STP-1	
	Solid and Hazardous Wastes Management Measures • All non-hazardous solid	Solid and Hazardous Wastes Management Measures • All non-hazardous solid wastes shall be utilized in-house in	Solid and Hazardous Wastes Management Measures • All non-hazardous	Solid and Hazardous Wastes Management Measures • All non-	

SN	JSWSL Existing EC dated 25.07.2024	JSWSL After proposed Split/Transfer and amendment	JVML existing EC dated 25.07.2024	JVML After proposed Split/Transfer	Remarks
	Facility / activity granted Prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JSWSL along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Facility / activity granted prior EC along with configuration and capacity of Existing EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc	Proposed Changes in Facility / activity granted prior EC in name of JVML along with configuration and capacity (E.g.: Configuration, Capacity, Area, Raw Materials, etc	
	wastes shall be utilized in-house in Sinter Plant/BOF. • BF/BOF Slag shall be utilized in house or sold to cement manufacturers or used for road construction. • Coal tar sludge and BOD sludge would be recycled for coke making by mixing with the coal charge. • All other hazardous wastes shall be disposed in secured landfill/ handed over to authorized dealers for disposal as per statutory norms.	Sinter Plant/BOF. • BF/BOF Slag shall be utilized in house or sold to cement manufacturers or used for road construction. • Coal tar sludge and BOD sludge would be recycled for coke making by mixing with the coal charge. • All other hazardous wastes shall be disposed in secured landfill/ handed over to authorized dealers for disposal as per statutory norms.	solid wastes shall be utilized in-house in Sinter Plant/BOF. • BF/BOF Slag shall be utilized in house or sold to cement manufacturers or used for road construction. • All other hazardous wastes shall be disposed in secured landfill/handed over to authorized dealers for disposal as per statutory norms	hazardous solid wastes shall be utilized in-house in Sinter Plant/BOF. • BF/BOF Slag shall be utilized in house or sold to cement manufacturers or used for road construction. • All other hazardous wastes shall be disposed in secured landfill/handed over to authorized dealers for disposal as per statutory norms • Coal tar sludge and BOD sludge would be recycled for coke making by mixing with the coal charge.	

EC Responsibility Matrix

Sl. No	JSWSL EC Conditions vide letter dated 25/07/2024	Revised EC Condition after Proposed Split of EC	
		Parent Company (JSWSL)	Transferee Company (JVML)
A. SPECIFIC CONDITIONS			
i.	Green belt shall be developed in 33% (870 ha) of the revised plant area (2630.66 ha) all along the periphery of the project site by September 2024 with a tree density of 2500 trees per hectare.	Revised EC Condition - Green belt shall be developed in 33.93% (834.84 ha) of the revised plant area (2460.58 ha) all along the periphery of the project site with a tree density of 2500 trees per hectare. Compliance/Remarks: In the current proposal reduction of plant area w.r.t. CO6, additional land given to JVML Expansion, Jindal Vijayanagar Airport area to avoid overlapping of EC proposal area. After the present proposal the total area will be 2460.58 Ha out of which 834.84 Ha(33.93%) will be maintained as Green Belt.	Revised EC Condition - Green belt shall be developed and maintained in 33% of the revised plant area all along the periphery of the project site with a tree density of 2500 trees per hectare.
ii.	Project proponent shall install covered sheds for coal storage in an area of 32325 sqm by 30-06-2024.	Revised EC Condition - Project proponent shall install covered sheds for coal storage in an area of 32325 sqm by 30-06-2027. Compliance/Remarks: Presently the coal stock piles are covered with tarpaulin sheets. Design of Cover sheds has been completed. Windshields of 0.8km are also provided all around the coal yards. The foundations work is completed and the installation of covered sheds in ongoing and shall be completed by 30.06.2027.	Nil

iii.	EC Condition - 84 km long pipe conveyor shall be installed by 31/03/2028 as committed.	Revised EC Condition - 84 km long pipe conveyor shall be installed as committed. The ministry may be apprised about the progress made in installing the pipe conveyor. Compliance/ Remarks: 37.5 km length of Pipe conveyor having 25 MTPA capacity is under operation. 84 km Pipe Conveyor shall be installed by JSWSL and utilized for transportation of Iron ore from nearby mines both for JSWSL and JVML Plant operations. Further, the pipe conveyor is facing delay in statutory approvals i.e forest clearance and right of way are at various stages.	Nil
iv.	Ambient air quality shall be improved by adopting measures like pipe conveyor, use of by product gas in place of coal and covered shed. Noise levels shall be controlled by decrease in truck traffic after completion of the pipe conveyor.	Revised EC Condition - Ambient air quality shall be improved by adopting measures like pipe conveyor, use of by product gas in place of coal and covered shed. Noise levels shall be controlled by decrease in truck traffic after completion of the pipe conveyor. Compliance/Remarks: To improve the ambient air quality the following measures have been implemented by project proponent a. Implemented the 25 MTPA capacity pipe conveyor of 37.5km length, which is operational. Presently the coal stock piles are covered with tarpaulin sheets for immediate control. Design of Cover sheds has been completed. Windshields of 0.8km are also provided all around the coal yards. The	Revised EC Condition - Ambient air quality shall be improved by adopting measures like use of by product gas.

		installation of covered sheds in ongoing and shall be completed by 30.06.2027. b. By product gases like BF gas, COREX Gas, Coke oven gases are used as fuel in the process (Blast furnace stove, under firing of coke oven batteries, reheating furnace etc) and also for power generation, thereby reducing the significant coal consumption.	
v.	Environment Clearance for the new township project shall be obtained from the concerned competent authority.	Revised EC Condition – The area of proposed township is 56.6 Acres and the built up area is <1,50,000 Sq Mtrs. Hence MoEF&CC Notification S.O. 3252(E). Dtd: 22.12.2014 and its subsequent amendments/ OM is not applicable for the proposed township.	Nil
vi.	PP shall ensure Control of rooftop emissions from SMS 1 &2 and Install primary De-dusting system in SMS 2 by 31/03/2025.	Revised EC Condition – PP shall ensure Control of rooftop emissions from SMS 1 & 2 and Install primary De-dusting system in SMS 2 by 31/10/2026. Compliance/Remarks: SMS – 1 installation of primary deduting system completed. SMS-2 has 4 Convertors(D, E, F and G). The Augmentation of D, F and G convertors completed, Augmentation of E is under progress. The same will be completed by 31/10/2026.	Nil
vii.	PP shall ensure regular monitoring and maintenance of Junction houses in raw material handling area to control fugitive emissions.	Revised EC Condition – PP shall ensure regular monitoring and maintenance of Junction houses in raw material handling area to control fugitive emissions.	Revised EC Condition – PP shall ensure regular monitoring and maintenance of Junction houses in raw material handling area to control fugitive emissions.

viii.	Desulfurization of Coke Oven Gas, use of low Sulphur coal, Flue Gas Desulphurization in captive power plant shall be adopted to control SO ₂ emissions.	Revised EC Condition - Desulfurization of Coke Oven Gas, use of low Sulphur coal, Flue Gas Desulphurization in captive power plant shall be adopted to control SO ₂ emissions. Compliance: De-sulfurization of coke oven gas was implemented in coke oven 3, 4 and 5.	Revised EC Condition - Desulfurization of Coke Oven Gas, use of low Sulphur coal, Flue Gas Desulphurization in captive power plant shall be adopted to control SO ₂ emissions in CO6.
ix.	Project proponent shall install 6 Continuous Ambient Air Quality Monitoring Stations (CAAQMS).	Revised EC Condition - Project proponent shall install 6 Continuous Ambient Air Quality Monitoring Stations (CAAQMS).	Nil
x.	Following Cleaner technologies shall be adopted by PP as committed: a) MEROS in Sinter plants to control emissions b) Sinter cooler waste heat recovery to generate power/steam c) TRT and Stove waste gas heat recovery system in BF d) Secondary Fume Extraction system in BOF with dog houses e) Pipe conveyor to transport iron ore from various mines f) 3.5 km wind curtains in coal yard g) WHRB for ZPF waste heat recovery h) Installation of Zero Power Furnace. i) CO ₂ injection for pH control in SMS. j) Single oven pressure control in Coke Ovens to control Charging Emissions along with CGT car and HPLA	Revised EC Condition - Following Cleaner technologies shall be adopted by PP as committed: a) MEROS in Sinter plants to control emissions b) Sinter cooler waste heat recovery to generate power/steam c) TRT and Stove waste gas heat recovery system in BF d) Secondary Fume Extraction system in BOF with dog houses e) Pipe conveyor to transport iron ore from various mines f) 3.5 km wind curtains in coal yard g) WHRB for ZPF waste heat recovery h) Installation of Zero Power Furnace. i) CO ₂ injection for pH control in SMS. j) Single oven pressure control in Coke Ovens to control Charging Emissions along with CGT car and HPLA. k) Hydrogen gas utilization in blast furnace for CO ₂ emission footprint	Revised EC Condition - Following Cleaner technologies shall be adopted by PP: CDQ Plant for recovery of waste heat gases from Coke Oven plant.

	Compliance: a. Installation of High efficiency Bag Filter in SP 3 plant is under progress and shall be completed by September 2024. b. Dedusting cars have been provided in all Coke Oven batteries to control charging emissions. Single oven pressure control system is provided in two batteries of Coke Oven 3 & 4, to control charging emissions. In balance 6 batteries it will be implemented in phase wise by 31.03.2025. In CO5, two batteries are operational and are equipped with HPALA (High pressure Ammonia liquor Aspiration system with CGT Charging gas transfer car). The remaining two batteries will be equipped with the same system along with the project.	reduction.	
xi.	100% solid waste utilization by means of following state-of-the-art technologies for recovery and recycling various wastes generated within the plant premises shall be adopted. i. Slag sand plant for surplus granulated BF slag ii. Micro-pellet plant (2050 TPD) for the dust & sludge collected from air and water pollution control equipment.	Revised EC Condition - 100% solid waste utilization by means of following state-of-the-art technologies for recovery and recycling various wastes generated within the plant premises shall be adopted. i. Slag sand plant for surplus granulated BF slag ii. Micro-pellet plant (2060 TPD) for the dust & sludge collected from air and water pollution control equipment. iii. Mill scale briquetting plant (600 TPD) for high Fe	Nil

	iii. Mill scale briquetting plant (600 TPD) for high Fe containing sludge & dust from Mills. iv. Waste-to-wealth plant (600 TPD) for the Dust & sludge of low Fe values through beneficiation v. Steam Box technology for SMS slag ageing to make it suitable for use as aggregate in road making. vi. Slag sand plant (17000 TPD) is proposed for converting steel slag to sand for sale. vii. LHF slag briquetting plant (300 TPD) for production of briquettes to replace imported synthetic slag viii. Powder steel slag fines for use in land reclamation and soil conditioning ix. Carbon recovery plant - Carbon recovery shall be done from BF dust, BF GCP slurry and COREX Furnace GCP slurry recycled back into utilization.	containing sludge & dust from Mills. iv. Waste-to-wealth plant (600 TPD) for the Dust & sludge of low Fe values through beneficiation v. 100 TPD BOF steel to slag plant has been installed and is in operation for utilization of SMS Slag. vi. Slag sand plant (17000 TPD) is proposed for converting steel slag to sand for sale. vii. LHF slag briquetting plant (300 TPD) for production of briquettes to replace imported synthetic slag iii. Powder steel slag fines for use in land reclamation and soil conditioning ix. Carbon recovery plant - Carbon recovery shall be done from BF dust, BF GCP slurry and COREX Furnace GCP slurry recycled back into utilization. x. SSRP plant for sustainable utilization of resources for recovery of iron from tailings. xi. Carbon Capture Unit in Blast Furnaces for CO2 Sequestering (Reduction in CO2 emission by approx. 50%). Compliance/Remarks: 100 % of solid wastes generated in the plant are being utilized through various state-of-the-art technologies micro pelleting, Mill scale briquetting, waste to wealth plant, artificial sand etc. i. 1x40 TPH & 2x 125 TPH slag sand plant has been installed and complete granulation units will be implemented along with	
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		projects. ii. Micro Pellet Plant of 2050 TPD has been installed and is in operation. iii. Mill Scale Briquetting(MSB) plant of 600 TPD has been installed for utilizing high iron containing dust & sludge from mills. iv. Waste to Wealth (WTW) plant of 600 TPD has been installed for utilizing dust, sludge of low iron value. v. R&D studies have been conducted on a 100 TPD pilot plant for Steam Box Technology. It has been concluded that BOF slag to sand plant is the better suited for the existing plant. Accordingly, a 100 TPD BOF steel to slag plant has been installed and is in operation. vi. A 17000 TPD BOF steel to slag plant is installed. Plant is in operation. vii. A 300 TPD LFH slag Briquetting plant has been installed and is in operation. viii. The powdered steel slag generated from the BOF steel to slag plant will be used for cement making in JSW cement unit. ix. A 500 TPD carbon recovery plant has been installed and is in operation. x. SSRP Plant for sustainable resource utilization by recovery of iron. xii. Carbon Capture Unit in Blast Furnaces for CO2 Sequestering (Reduction in CO2 emission footprint by approx. 50%).	
xii.	The recommendations of the approved Integrated Site-Specific Wild life	Revised EC Condition - The recommendations of the approved Integrated Site-	Nil

	Conservation Plan/ Wildlife Management Plan for revising schedule-I species and the plan covering JSW complex area and shall implement in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Specific Wild life Conservation Plan/ Wildlife Management Plan for revising schedule-I species and the plan covering JSW complex area and shall implement in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	
B. GENERAL CONDITIONS			
I. STATUTORY COMPLIANCE			
i.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project	Revised EC Condition - The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project	Revised EC Condition - The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
II. AIR QUALITY MONITORING AND PRESERVATION			
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQS) for	EC Condition - The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters	Revised EC Condition - The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission The CEMS shall be connected to SPCB and CPCB

	monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Revised EC Condition - 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.	Revised EC Condition - The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
iii.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	Revised EC Condition - Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	Revised EC Condition - Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
iv.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Revised EC Condition - Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Revised EC Condition - Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.

			and fugitive emission standards.
v.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Revised EC Condition - The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Revised EC Condition - The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
vi.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Revised EC Condition - Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Revised EC Condition - Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
vii.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	Revised EC Condition - 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.	Revised EC Condition - Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.
viii.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Revised EC Condition - The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Revised EC Condition - The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
ix.	Facilities for spillage collection shall be maintained, monitored for the effectiveness for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility)	Revised EC Condition - Facilities for spillage collection shall be maintained, monitored for the effectiveness for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).	Revised EC Condition - Facilities for spillage collection shall be maintained, monitored for the effectiveness for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).
x.	Land-based APC system shall be installed to	Revised EC Condition - Land-based APC system shall	Revised EC Condition - Land-based APC system

	control coke pushing emissions.	be installed to control coke pushing emissions.	shall be installed to control coke pushing emissions.
xi.	Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	Revised EC Condition - Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	Revised EC Condition - Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
xii.	Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	Revised EC Condition - Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	Revised EC Condition - Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.
xiii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Revised EC Condition - Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Revised EC Condition - Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
xiv.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Revised EC Condition - Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Revised EC Condition - Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars

III. WATER QUALITY MONITORING AND PRESERVATION

i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015	Revised EC Condition - The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and	Revised EC Condition - The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time and connected to SPCB and
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	(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.	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.	CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Revised EC Condition - The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Revised EC Condition - The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
iii.	The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 4 14 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 20 5 (Thermal Power Plants) as amended from time to time as amended from time to time;	Revised EC Condition - The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 4 14 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time as amended from time to time;	Revised EC Condition - The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 4 14 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time as amended from time to time; Remarks: Noted and will

			comply. In CO6, BOD plant and RO/ZLD system of capacity 6000 m3 has been proposed considering the future expansion to treat the coke oven plant effluents in addition to existing treatment facilities.
iv.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Revised EC Condition - Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Nil
v.	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.	Revised EC Condition - 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.	Revised EC Condition - 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.
vi.	Tyre washing facilities shall be maintained at the entrance of the plant gates.	Revised EC Condition - Tyre washing facilities shall be maintained at the entrance of the plant gates.	Revised EC Condition - Tyre washing facilities shall be maintained at the entrance of the plant gates.
vii.	Treated water from ETP of COBP shall not be used for coke quenching	Revised EC Condition - Treated water from ETP of COBP shall not be used for coke quenching.	Revised EC Condition - Treated water from ETP of COBP shall not be used for coke quenching.
viii.	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Revised EC Condition - Water meters shall be provided at the inlet to all unit processes in the steel plants.	Revised EC Condition - Water meters shall be provided at the inlet to all unit processes in the steel plants.
IV. NOISE MONITORING AND PREVENTION			
i.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to	Revised EC Condition - Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to	Revised EC Condition - Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall

	Regional Officer of the Ministry as a part of six-monthly compliance report.	Regional Officer of the Ministry as a part of six-monthly compliance report.	be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
V. ENERGY CONSERVATION MEASURES			
i.	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	Revised EC Condition - Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	Nil
ii.	Restrict Gas flaring to < 1%.	Revised EC Condition - Restrict Gas flaring to < 1%.	Revised EC Condition - Restrict Gas flaring to < 1%.
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Revised EC Condition - Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Revised EC Condition - Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
iv.	Provide LED lights in their offices and residential areas.	Revised EC Condition - Provide LED lights in their offices and residential areas.	Revised EC Condition - Provide LED lights in their offices and residential areas.
v.	Ensure installation of regenerative/ recuperative type burners on all reheating furnaces	Revised EC Condition - Ensure installation of regenerative/ recuperative type burners on all reheating furnaces.	Nil
VI. WASTE MANAGEMENT			
i.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Revised EC Condition - Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Revised EC Condition - Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
ii.	Kitchen waste shall be composted or converted	Revised EC Condition - Kitchen waste shall be	Revised EC Condition - Kitchen waste shall be

	to biogas for further use	composted or converted to biogas for further use.	composted for further use as manure.
VII. GREEN BELT			
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Revised EC Condition - The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Revised EC Condition - The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
VIII. PUBLIC HEARING AND HUMAN HEALTH ISSUES			
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Revised EC Condition - Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Revised EC Condition - 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.	Revised EC Condition - 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.	Revised EC Condition - The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained	Revised EC Condition - Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Revised EC Condition - Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
IX. ENVIRONMENT MANAGEMENT			
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/20 17-IA.III dated 30/09/2020	Revised EC Condition - The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/20 17-IA.III dated 30/09/2020.	Nil
ii.	The company shall have a well laid down environmental policy	Revised EC Condition - The company shall have a well laid down environmental policy	Revised EC Condition - The company shall have a well laid down

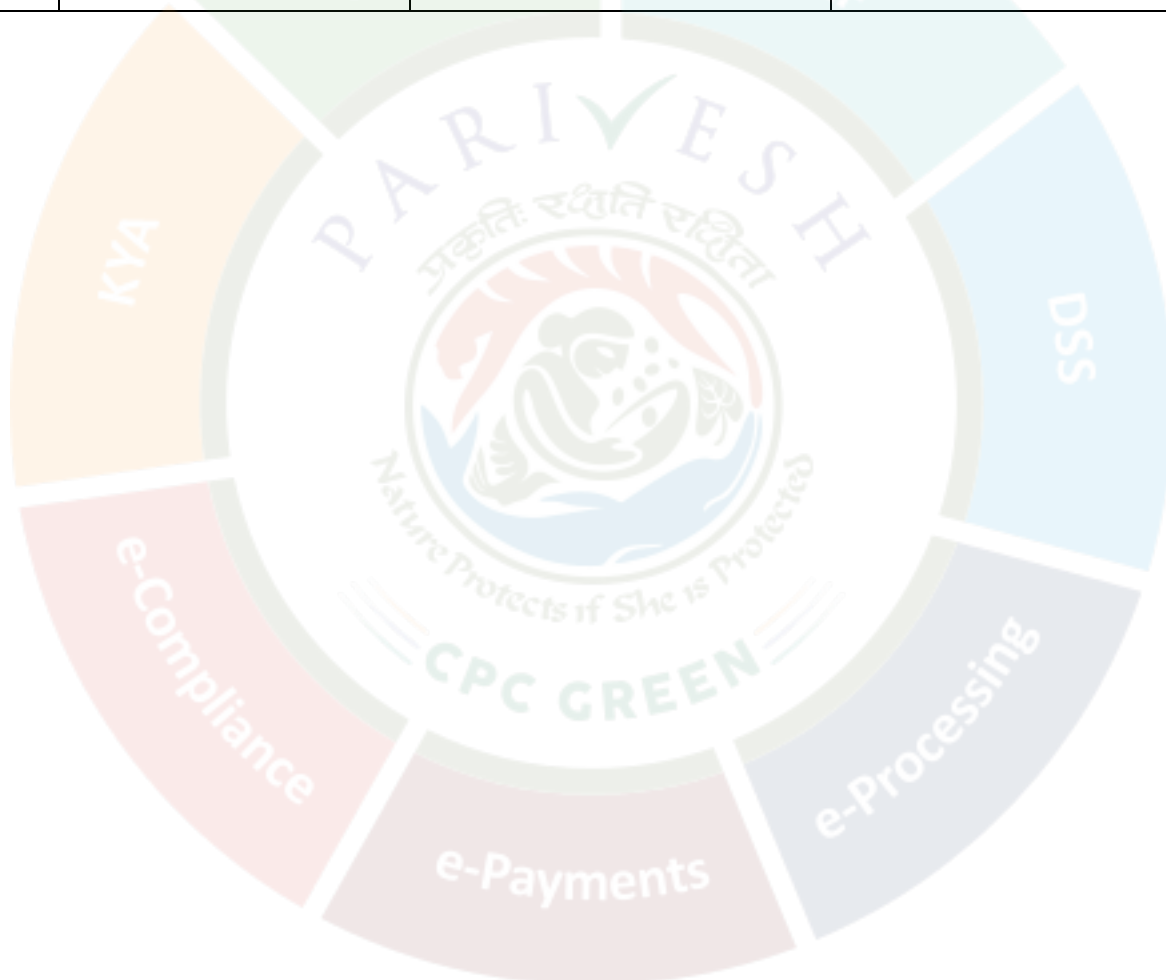
	duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined 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.	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.	environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation /violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization	Revised EC Condition - 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.	Revised EC Condition - A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
X Miscellaneous			
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost	Revised EC Condition - 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	Revised EC Condition - The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their

	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.	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.	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 along with salient features of the project 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	Revised EC Condition - The copies of the environmental clearance along with salient features of the project 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.	Revised EC Condition - The copies of the environmental clearance along with salient features of the project 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	Revised EC Condition - 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.	Revised EC Condition - 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; PM ₁₀ , SO ₂ , 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	Revised EC Condition - The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , 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.	Revised EC Condition - The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , 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

	the public and put on the website of the company.		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.	Revised EC Condition - 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.	Revised EC Condition - 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.	Revised EC Condition - 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.	Revised EC Condition - 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.	Revised EC Condition - 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.	Revised EC Condition - The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
viii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and addendum to EIA	Revised EC Condition - The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and addendum to EIA report,	Revised EC Condition - The project proponent shall abide by all the commitments and recommendations made in the Environmental

	report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	appraisal report and during presentation to the Expert Appraisal Committee.
ix.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Revised EC Condition - 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).	Revised EC Condition - No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
x.	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.	Revised EC Condition - 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.	Revised EC Condition - 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.
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Revised EC Condition - The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Revised EC Condition - The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Revised EC Condition - The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Revised EC Condition - The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
xiii.	The RO of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the	Revised EC Condition - The RO of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional	Revised EC Condition - The RO of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the

	Regional Office by furnishing the requisite data/ information/ monitoring reports	Office by furnishing the requisite data/ information/ monitoring reports.	officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.
xiv.	Any Appeal against the 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.	Revised EC Condition - Any Appeal against the 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.	Revised EC Condition - Any Appeal against the 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.

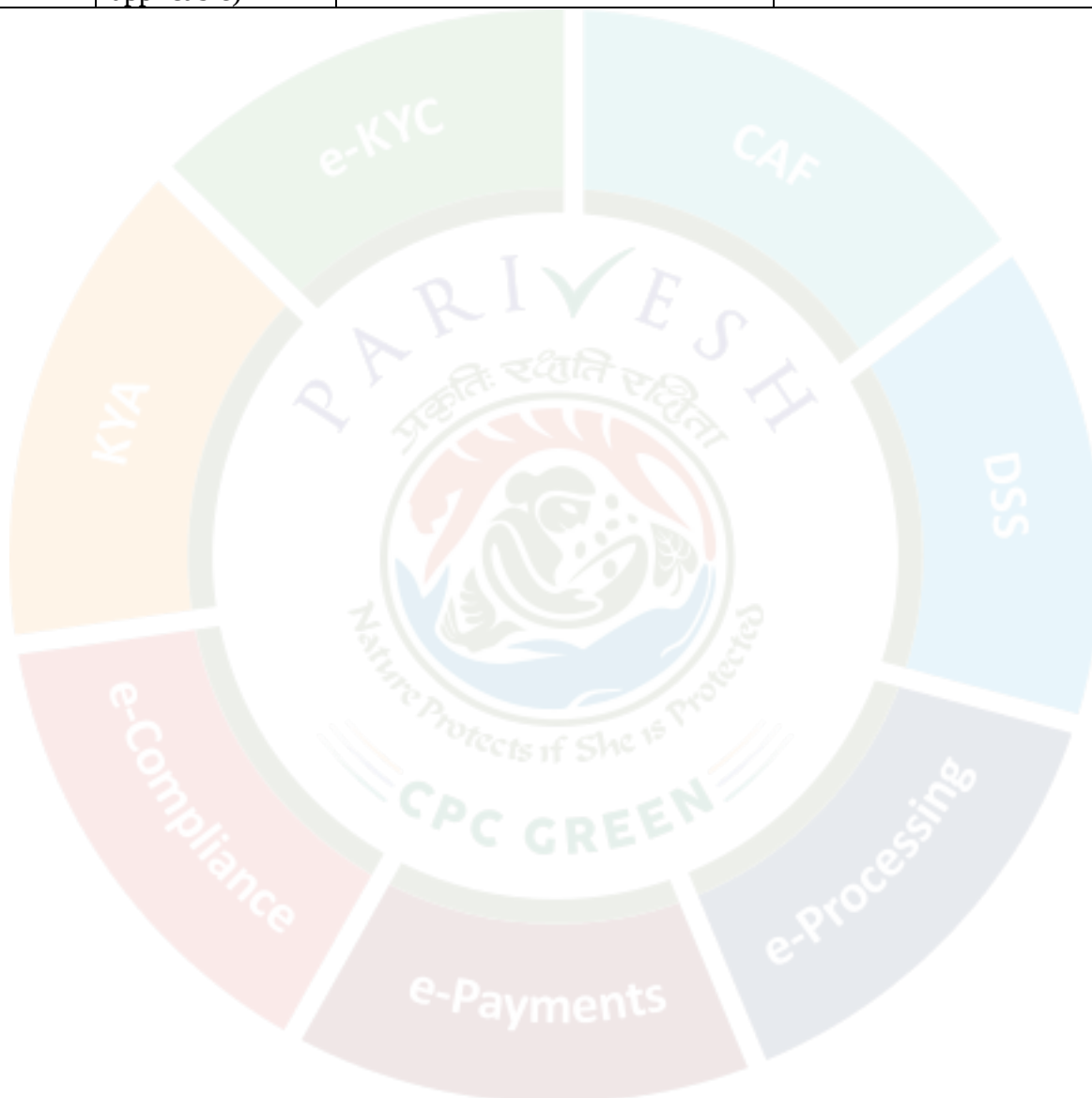


Environmental Liability Matrix

Sl. No	Environmental Liability	Parent Company JSWSL	Transferee Company JVML
1. Compliance Obligations			
1.	EC Compliance	Timely submission of Compliance to EC Conditions for the 13 MTPA Plant shall be the responsibility of JSWSL	Timely submission of Compliance to EC Conditions for the proposed CO6 facility shall be the responsibility of JVML
2.	CTE Compliance	Applicable for the 13 MTPA Steel Plant	Applicable for the CO6 facility
3.	CTO Compliance	Applicable for the 13 MTPA Steel Plant	Applicable for the CO6 facility
4.	Compliance to Hazardous waste mgmt. rules	Applicable for the 13 MTPA Steel Plant	Applicable for CO6 facility
5.	Compliance to Plastic waste mgmt. rules	Applicable for the 13 MTPA Steel Plant	Applicable for the CO6 facility
6.	Compliance to E waste mgmt. rules	Applicable for the 13 MTPA Steel Plant	Applicable for the CO6 facility
7.	Compliance to Bio medical mgmt. rules	Applicable for Bio Medical wastes of JSW Sanjeevani Hospital and in plant Health Centers.	Applicable for Bio Medical wastes of and in plant Health Centers.
2. Remediation/Mitigation obligations			
8.	EMP Measures	CAPEX and OPEX expenditure towards implementation of EMP Measures for the 13 MTPA Steel Plant shall be the responsibility of JSWSL	CAPEX and OPEX expenditure towards implementation of EMP Measures for the proposed CO6 facility shall be the responsibility of JVML
9.	Greenbelt Development	Development of minimum 33.93% of Green Belt of the total project area shall be the responsibility of JSWSL	Development of minimum 33% of Green Belt(after proposed split/ amendment/ expansion) of the total project area shall be the responsibility of JVML.
10	Remediation Plan (If Applicable)	In case of Violation of EC for the 13 MTPA Steel Plant, Expenditure towards mitigative measures for the remediation Plan shall be the responsibility of JSWSL	In case of Violation of EC for the proposed CO6 facility, Expenditure towards mitigative measures for the Remediation Plan shall be

Sl. No	Environmental Liability	Parent Company JSWSL	Transferee Company JVML
			the responsibility of JVML
11	Natural and Community Resource Augmentation Plan (if applicable)	In case of Violation of EC for the 13 MTPA Steel Plant, Expenditure towards mitigative measures for the Natural and Community Resource Augmentation Plan shall be the responsibility of JSWSL	In case of Violation of EC for the proposed CO6 facility, Expenditure towards mitigative measures for the Natural and Community Resource Augmentation Plan shall be the responsibility of JVML
3. Fines and penalties			
12	Liability towards reply to Show cause Notices	In case of issuance of Show Cause Notice regarding any Environmental Issues related to the 13 MTPA Steel Plant, JSWSL shall be liable.	In case of issuance of Show Cause Notice regarding any Environmental Issues related to the proposed CO6 facility, JVML shall be liable.
13	Directions issued by CPCB SPCB	In case of issuance of Directions under The Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 or The Environment (Protection) Act, 1986 related to the 13 MTPA Steel Plant, JSWSL shall be liable.	In case of issuance of Directions under The Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 or The Environment (Protection) Act, 1986 related to the proposed CO6 facility, JVML shall be liable.
14	Penalty due to EIA Violation	In case of violation of EIA Notification, 2006 by the 13 MTPA Steel Plant, payment towards any penalty as applicable shall be the responsibility of JSWSL	In case of violation of EIA Notification, 2006 by the proposed CO6 Facility, payment towards any penalty as applicable shall be the responsibility of JVML
15	Penalty due to failure in Compliance to Directions	In case of failure in Compliance to Directions by the 13 MTPA Steel Plant, payment towards any penalty or any other punishment as applicable shall be the responsibility of JSWSL	In case of failure in Compliance to Directions by the proposed CO6 Facility, payment towards any penalty or any other punishment as applicable shall be the responsibility of JVML
4. Compensation obligations/Punitive Damages			

Sl. No	Environmental Liability	Parent Company JSWSL	Transferee Company JVML
16	Due to Fines & Penalties	In case of issuance of any Fines or Penalties to the 13 MTPA Steel Plant, JSWSL shall be liable.	In case of issuance of any Fines or Penalties to the proposed CO6 facility JVML shall be liable.
5. Rehabilitation Obligations			
17	R&R (If applicable)	Not Applicable	Not Applicable



Implementation status of the existing EC

Sr No.	Facility	Unit	As per existing EC & CTE	Implementation Status	As per latest CFO
1	Ore Beneficiation Plant	OBP-1	1 X 4.5 MTPA	Operational	1 X 4.5 MTPA
		OBP-2	2.5+ 5.0 +7.5 MTPA	Operational	2.5+ 5.0 +7.5 MTPA
2	Coke Ovens	C01 (NR)	Dismantled	Dismantled	-
		C02 (NR)	Dismantled	Dismantled	-
		CO3	1.5 MTPA	Operational	1.5 MTPA
		C04	2 MTPA	Operational	2 MTPA
		CO5	3 MTPA	Operational	3 MTPA
		CO6	1.5 MTPA	Construction yet to start	-
3	Sinter Plants	SP1	2.3 MTPA	Operational	2.3 MTPA
		SP2	2.3 MTPA	Operational	2.3 MTPA
		SP3	5.75 MTPA	Operational	5.75 MTPA
		SP4	2.3 MTPA	Operational	2.3 MTPA
4	Pellet Plants	PP1	5 MTPA	Operational	5 MTPA
		PP2	5 MTPA	Operational	5 MTPA
		PP3	6.8 MTPA	Operational	6.8 MTPA
5	Hot Metal COREX	COREX – 1	0.8 MTPA	Operational	0.8 MTPA
		COREX - 2	0.8 MTPA	Operational	0.8 MTPA
6	Hot Metal Blast Furnace	BF1	2.5 MTPA	Operational	2.5 MTPA
		BF2	2.17 MTPA	Operational	2.17 MTPA
		BF3	4.4 MTPA	Operational	4.4 MTPA
		BF4	3 MTPA	Operational	3 MTPA
7	Pig Caster	MGP	1 x 1200 TPD	Operational	1 x 1200 TPD
			3 x 3600 TPD	Operational	3 x 3600 TPD
8	Crude Steel	SMS1	3.8 MTPA	Operational	3.8 MTPA
		SMS2	6.4 MTPA	Operational	6.4 MTPA
		SMS3	1.5 MTPA EAF+ 1.5 MTPA ZPF	Operational	3 MTPA
9	Lime Kilns	LCP1	4x300 TPD	Operational	4x300 TPD
		LCP2	4x300 TPD + 3x600 TPD	Operational	4x300 TPD + 3x600 TPD
		LCP3	2x600 TPD	Operational	2x600 TPD
10	Castors	Slab Caster 1	3.2 MTPA	Operational	3.2 MTPA

Sr No.	Facility	Unit	As per existing EC & CTE	Implementation Status	As per latest CFO
		Slab Caster 2	6.4 MTPA	Operational	6.4 MTPA
		Slab Caster 3	1.6 MTPA	Operational	1.6 MTPA
		Billet Caster 1	1.5 MTPA	Operational	1.5 MTPA
		Billet Caster 2	3.0 MTPA	Operational	3.0 MTPA
11	Hot Strip Mills	HSM-1	4 MTPA	Operational	4 MTPA
		HSM-2	5.2 MTPA	Operational	5.2 MTPA
12	Pipe Mill	PM	0.4 MTPA	Construction yet to start	-
13	Wire Road Mill	WRM-1	0.6 MTPA	Operational	0.6 MTPA
		WRM-2	1.2 MTPA	Operational	1.2 MTPA
14	Rebar and Section Mills	BRM-1	1.0 MTPA	Operational	1.0 MTPA
		BRM-2	1.2 MTPA	Operational	1.2 MTPA
15	Cold Rolling Mills	CRM-1	1.2 MTPA	Operational	1.2 MTPA
		CRM-2	1.8 MTPA	Operational	1.8 MTPA
		CRM-3	2.3 MTPA	Operational	2.3 MTPA
16	Galvanizing Lines	CGL	1.9 MTPA	Operational	1.9 MTPA
17	Colour Coating Line	-	0.5 MTPA	Operational	0.5 MTPA
18	Captive Power Plants	CPP1 Gas Based	100 MW	Operational	100 MW
		CPP2 Gas Based	130 MW	Operational	130 MW
		CPP3 Coal + Gas	300 MW	Operational	300 MW
		CPP4 Coal + Gas	300 MW	Operational	300 MW
		CPP5	660 MW	Construction yet to start	-
19	Incinerator	INC	1000 Kg/Hr	Operational	1000 Kg/Hr
20	Slag Grinding and Mixing unit	CP	0.2 MTPA	Operational	0.2 MTPA
21	Oxygen Plant	-	1 x 2500 TPD	Operational	1 x 2500 TPD
			4 x 1800 TPD	Operational	4 x 1800 TPD
			1 x 900 TPD	Operational	1 x 900 TPD
			2060 TPD + 2200 TPD	Operational	2060 TPD + 2200 TPD