



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



Dated 18/09/2026



To,

M/s. JSW STEEL LIMITED
 Bandra Kurla Complex, Bandra (East), Mumbai - 400051, Toranagallu, BALLARI, KARNATAKA, ,
 583275
 E-mail: anand.raai@jsw.in

Subject: Split/ Transfer of Coke Oven 6 (CO6) with capacity 1.5 MTPA and Its Associated Facilities from existing Environment Clearance of M/s JSW Steel Limited to M/s JSW Vijayanagar Metallica Limited along with necessary amendment in EC of JSWSL by M/s. JSW Steel Limited, located at Vidyanagar P.O., Toranagallu Village, Sandur Taluk, Ballari District, Karnataka-Consideration of Amendment in EC – Reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/KA/IND1/580499/2026 dated 28/05/2026 for grant of an amendment in prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26A1005KA5875401A
(ii) File No.	J-11011/489/2009-IA.II(I)
(iii) Clearance Type	Amendment in EC
(iv) Category	A
(v) Schedule No./ Project Activity	3(a) Metallurgical Industries (ferrous and non ferrous)
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	Amendment in Environment Clearance (EC) of M/s JSW Steel Limited & consolidation of existing EC's into a single EC
(viii) Location of Project (District, State)	BALLARI, KARNATAKA
(ix) Issuing Authority	MoEF&CC
(x) EC Date	28/07/2026
(xi) Applicability of General Conditions	YES

(xii) Status of implementation of the project

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 seeking **1) Amendment** – in EC obtained from MoEF&CC vide F.No. J-11011/489/2009-IA.II(I) dated 25.07.2024 w.r.t. split/transfer of Coke Oven 6 and its associated facilities from EC of M/s JSWSL to M/s JVML along with land area of 27.55 Ha, rationalization of total project area with respect to split proposals, and amendment in certain EC conditions and **2) Amalgamation of ECs** - The proposal further encompasses administrative consolidation/ amalgamation of existing Environmental Clearances (ECs) into a single Environmental Clearance as detailed below:

A. Amendment in EC obtained from MoEF&CC vide F.No. J-11011/489/2009-IA.II(I) dated 25.07.2024

I. Splitting of transfer of Coke Oven 6 and its associated facilities from EC of M/s JSWSL to M/s JVML along with land area of 27.55 Ha

JSW Steel Limited (JSWSL), Vijayanagar Works is proposing to split their existing EC for 13 MTPA Integrated Steel plant and transfer Coke Oven - 6 and its associated facilities from the existing facility of JSWSL to JSW Vijayanagar Metallics Limited (JVML).

a) Implementation status of existing ECs/CTEs:

Sr No.	Facility	Unit	As per existing EC & CTE	Implementation Status	As per latest CFO	Remarks
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	-	Proposed to be transferred from JSWSL to JVML
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	Operational	3 MTPA	-

			ZPF			
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	Casters	Slab Caster 1	3.2 MTPA	Operational	3.2 MTPA	-
		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	130 MW	Operational	130 MW	-

		Based				
		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	-

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

Sl. No.	Facility	Units	Capacity			
			As per existing EC of JSWSL as per EC Dtd: 25.07.2024	Proposed Split/ Transfer	Final Facility Wise configuration of JSWSL after proposed Split/Transfer	Remarks
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 JSWSL and transferred to M/s JVML.
		CO4	2 MTPA	-		
		CO5	3 MTPA	-		
		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 unit	CP1	0.2 MTPA	-	0.2 MTPA	No Change
21	Oxygen Plant (Out sourced)	-	1 x 2500 TPD	-	14860 TPD	No Change

c) Justification for amendment in EC w.r.t. 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.

II. Reduction in the total area of M/s JSWSL w.r.t. the below proposals:

SR NO.	DESCRIPTION	AREA (In Ha.)
1.	Existing area of JSWSL as per EC (A)	2630.6
Proposed Area Reduction from JSWSL		
1.	Expansion/ Modernization of M/s Jindal Vijayanagar Airport	120.20
2.	Proposed Split/Transfer of CO-6 along with associated facilities from JSWSL to JVML	27.55
3.	Additional area given to JVML for proposed expansion project through MoU	22.26
Total Area to be reduced (B)		170.01
Remaining area of JSWSL after amendment (C) = A-B		2460.58

Justification for amendment in EC w.r.t. rationalisation of total project area: The project proponent submitted that M/s Jindal Vijayanagar Airport has been issued Terms of Reference (ToR) for Expansion/Modernization of Airport from SEAC, Karnataka under Cat B1. As per Additional Term of Reference Condition No 1, SEAC has informed 'To submit amended EC excluding the area of the proposed area of the airport from the existing EC issued to JSWSL (i.e, 120.2 Ha)', to comply with this

condition and considering the present proposals of proposed split/transfer of Coke Oven 6 and its associated facilities from EC of M/s JSWSL to M/s JVML along with land area of 27.55 Ha and additional 22.26 Ha land given to Proposed expansion of M/s JSW Vijayanagar Metallica Limited through MoU, to effect the changes along with corresponding changes in EC conditions, PP has submitted the current proposal seeking for Amendment to Environment Clearance issued to M/s JSW Steel Limited.

III. Amendment in the Environmental Clearance conditions

Sl.	Description	Reference as per EC Dtd: 25.07.2024 issued to JSWSL	JSWSL Existing EC condition	Revised Project Information Matrix including raw material, Environment Management Plan and waste generation after Proposed Split/Transfer of EC	
1	Annexure – I: Final Configuration of Plant facilities after proposed Split/Transfer/Amendment application.	Annexure – I	COKE OVEN FACILITIES CO3 – 1.5 MTPA CO4 – 2 MTPA CO5 – 3 MTPA CO6 – 1.5 MTPA	JSWSL CO FACILITIES CO3 – 1.5 MTPA CO4 – 2 MTPA CO5 – 3 MTPA	SPLIT/TRASNSFER OF CO-6 FACILITY TO JVML CO6 – 1.5 MTPA
2	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 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 which is sub leased to other JSW group companies located inside the complex. (iii) 337.1 ha proposed to sub lease to JSW VIJAYANAGAR	Land Details:- Total Area – 2460.58 Ha Greenbelt Area – 834.84 Ha(33.9%) Note: 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.	Land Details:- CO6 Area – 27.55 Ha

			METALLICS LIMITED.		
3	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 25)	· Iron ore fines - 2,43,87,500 · Iron ore lumps- 10,27,500 · Coking coal - 1,08,00,000 · COREX coal - 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	· Iron ore fines - 2,43,87,500 · Iron ore lumps- 10,27,500 · Coking coal - 84,75,000 · COREX coal - 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,	· Coking coal – 23,25,000 · Pet Coke(<3% S) – 2,32,500(10% of Feed Stock to replace Coking coal, based on availability)

				Director General of Foreign Trade (DGFT) – Copy of CFO and permission from DGFT enclosed.	
4	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 25(a))	• JSWSL Procures Raw material for both JSWSL and JVML for making Steel. • 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.	• JSWSL Procures Raw material for both JSWSL and JVML, for making Steel. • 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/Road are managed and owned by JSWSL.	Raw Material Interdependence • The Materials required for preparation of Steel is sourced from JSWSL. • JVML has resource sharing agreement with JSWSL
5	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 26)	1,21,541 m3/day	1,17,843 m3/day	3698 m3/day (CO 6 Facility)
6	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 27)	1186 MW (As per EC Dtd:25.07.2024)	1172 MW	14 MW (CO 6 Facility)
7	Annexure – II: Project	Annexure –	• Coke Oven gas	• Coke Oven	• Coke Oven gas

	Information, EC Responsibility and Environmental Liability Matrix	II (Specific Condition 28)	(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	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	(COG) - 50 K Nm3/hr · BF Gas (BFG) - 140 K Nm3/hr (CO 6 Facility)
8	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 29)	• PM 676.3 g/s • PM2.5 181.3 g/s • SO2 1817.4 g/s • NOx 1610.5 g/s	• PM 666.56 g/s • PM2.5 176.04 g/s • SO2 1750.8 g/s • NOx 1543.6 g/s	• PM 9.74 g/s • PM2.5 5.26 g/s • SO2 66.6 g/s • NOx 66.9 g/s (CO 6 Facility)

B. Consolidation/Amalgamation/Merging of the existing Environmental Clearances (ECs) into a single Environmental Clearance

PP reported that JSW Steel Limited, Vijayanagar Works having current Crude Steel Capacity of 13 MTPA. JSWSL has expanded its production capacity in phase wise through amendments/expansions and are having multiple Environment Clearances, with conditions evolving over the period of time. The chronology of permissions obtained is as follows:

Sl No	Environmental Clearance Details	Environmental Clearance File No and Details	Date of Issue
1	Environment Clearance for Setting up of Integrated Steel Plant 1.25 MTPA	J-11012/30/94-IA.II(I)	06.03.1995
2	Environment Clearance for expansion of Integrated Steel Plant from 1.25 MTPA to 1.57 MTPA	J.11011/44/2000-IA.II(I)	19.01.2001
3	Consent For Establishment(CFE- NIPL) for expansion of Integrated Steel Plant from 1.57 MTPA to 2.5 MTPA	CFE-CELL/JVSL-2.5/ EIA-286/2005-2006/23	18.05.2005
4	Environment Clearance for expansion of Integrated Steel Plant from 2.5 MTPA to 4.0 MTPA	J-11011/377/2005-IA-II(I)	30.01.2006
5	Environment Clearance for expansion of Integrated Steel Plant from 4.0 MTPA to 10.0 MTPA	J-11011/364/2006-IA II(I)	07.05.2007
6	Amendment to Environment Clearance for expansion of	Amendment to	03.07.2008

	Integrated Steel Plant from 4.0 MTPA to 10.0 MTPA	F.No.J-11011/364/2006-IA II(I)	
7	Environment Clearance for expansion of Integrated Steel Plant from 10 MTPA to 16 MTPA	J-11011/489/2009-IA.II(I)	01.10.2015
8	1st Amendment to Environment Clearance of Integrated Steel Plant from 10 MTPA to 16 MTPA	Amendment to J-11011/ 489/ 2009-IA.II(I)	09.06.2016
9	2 nd Amendment to Environment Clearance of Integrated Steel Plant from 10 MTPA to 16 MTPA	Amendment to J-11011/489/2009-IA.II(I)	29.05.2018
10	Environment Clearance for expansion of Integrated Steel Plant from 16 to 18 MTPA	J-11011/489/2009-IA.II(I) EC Identification No: EC21A008KA165146	29.11.2021
11	Splitting of existing EC of M/s JSW Steel Ltd, Vijayanagar works with M/s JSW Steel Limited having final configuration for Integrated Steel Plant of capacity 13 MTPA along with Captive Power Plant of capacity 1490 MW and 0.2 MTPA Slag cement unit.	J-11011/489/2009-IA.II(I) EC Identification No: EC21A008KA165146	25.07.2024

The PP further reported that the present EC is inclusive of all the Units envisaged as part of Integrated Steel Plant at 13 MTPA facilities and the EC conditions are also reflective of the changes evolved over the period of time for all the units. To avoid duplication of conditions, and further legal hassles, **it is requested to consolidate/amalgamate/integrate all the previous EC's into a single EC.**

6. Justification for amendment in EC w.r.t. consolidation/amalgamation: The project proponent submitted the following:

- M/s JSW Steel Limited, Vijayanagar Works is an existing Integrated Steel Plant having valid EC under Cat 3(a)– Metallurgical industries (ferrous & non-ferrous) by MoEF&CC for Crude Steel production capacity 13 MTPA, CPP 1490 MW along with Slag Cement unit - 0.2 MTPA.
- M/s JSW Steel Limited, Vijayanagar Works has expanded its production capacity in phase wise through amendments/expansions since inception and has been accorded multiple Environment Clearances with JSWSL having final configuration of Integrated Steel Plant with Crude Steel production capacity 13 MTPA, CPP 1490 MW along with Slag cement plant - 0.2 MTPA. The environmental clearance conditions have evolved over the period of time, and the present EC is inclusive of all the Units envisaged as part of Integrated Steel Plant at 13 MTPA facilities and the EC conditions are also reflective of the changes evolved over the period of time for all the units. In view of the above, to avoid duplication of conditions, This proposal is to consolidate/amalgamate/integrate all the previous EC's into a single EC.

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

EXISTING	PROPOSED AMENDMENT
· Iron ore fines - 2,43,87,500	· Iron ore fines - 2,43,87,500

· Iron ore lumps-10,27,500 · Coking coal - 1,08,00,000 · COREX coal - 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	· Iron ore lumps- 10,27,500 · Coking coal – 84,75,000 · COREX coal - 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)).
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8. Existing Water requirement for JSWSL at 13 MTPA is 1,21,541 m3/day. Out of total water requirement, proposed water requirement for CO-6 and associated facilities i.e. 3698 m3/day shall be reduced.

The revised water requirement for JSWSL after amendment is as below:-

Details	Existing	CO6 facility	After proposed amendment
Water Requirement	121541 m3/day	3698 m3/day	1,17,843 m3/day

9. Existing power requirement of JSWSL at 13 MTPA is 1434 MW. Out of total power requirement, CO-6 power requirement i.e. 14 MW shall be reduced.

The revised power requirement for JSWSL after amendment will be as below:-

Details	Existing	CO6 facility	After Proposed Amendment
Power Requirement	1434 MW	14 MW	1420 MW

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

11. 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.

12. 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.

13. 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

14. The Committee noted the following:

1. The Committee noted that Environmental Clearance was accorded by the Ministry vide F. No. J-

11011/489/2009-IA.II(I) dated 25.07.2024 for splitting of the earlier Environmental Clearance dated 29.11.2021 among M/s JSW Steel Limited (JSWSL), M/s JSW Vijayanagar Metalics Limited (JVML) and M/s JSW Cement Limited (JSWCL), whereby JSWSL retained an Integrated Steel Plant of 13 MTPA crude steel capacity, 1490 MW Captive Power Plant and 0.2 MTPA slag cement unit.

2. The Committee noted that the instant proposal seeks amendment in the above Environmental Clearance with respect to (detailed in relevant para above):

- split/transfer of **Coke Oven-6 (1.5 MTPA)** and its associated facilities along with **27.55 ha** land from M/s JSWSL to M/s JVML;
- rationalization of the total project area of JSWSL consequent to transfer of CO-6 facilities, allocation of land for JVML expansion and exclusion of the Jindal Vijayanagar Airport area;
- consequential amendments in certain Environmental Clearance conditions reflecting the revised project configuration; and
- **administrative consolidation/amalgamation of all existing Environmental Clearances** pertaining to JSWSL into a single Environmental Clearance to avoid duplication and facilitate compliance.

3. The Committee took note of the justification furnished by the Project Proponent that the proposed transfer of CO-6 is necessitated due to organizational restructuring and business requirements, wherein JVML is envisaged as an integrated steel manufacturing entity producing value-added and special steel products. The Committee further noted that the proposal has been submitted in accordance with the provisions of MoEF&CC Notification S.O. 1832(E) dated 21.04.2023, and that any enhancement in the transferred Coke Oven capacity shall be considered separately under an independent Environmental Clearance proposal.

4. The Committee further noted that the proposed rationalization of the project area is consequential to the transfer of CO-6 facilities, exclusion of the area earmarked for Jindal Vijayanagar Airport, and allocation of additional land to JVML. The Committee observed that the proposed amendment does not involve acquisition of any additional land and merely redefines the project boundary among the concerned entities. The revised project area of JSWSL shall accordingly stand reduced from 2630.60 ha to 2460.58 ha.

5. The Committee deliberated upon the proposed amendments to the Environmental Clearance conditions and observed that the revisions are primarily consequential in nature, arising out of the transfer of CO-6 facilities, rationalization of land area and updating of project-specific information such as raw material requirement, water requirement, power requirement, fuel requirement, pollution load and greenbelt area. The Committee further observed that the proposed revisions do not result in any increase in the overall production capacity or environmental pollution load of JSWSL and are intended to ensure consistency between the Environmental Clearance and the revised project configuration.

6. The Committee also examined the proposal for administrative consolidation/amalgamation of all existing Environmental Clearances into a single Environmental Clearance. The Committee noted that the project has undergone multiple expansions and amendments since 1995, resulting in several Environmental Clearances containing overlapping and repetitive environmental conditions. The Committee was of the view that consolidation of the existing Environmental Clearances into a single comprehensive Environmental Clearance would improve regulatory clarity, eliminate duplication of conditions and

facilitate effective monitoring and compliance, provided that no environmental safeguard or substantive condition contained in the earlier Environmental Clearances is diluted or omitted.

7. The Committee deliberated on the Certified Compliance Report, Action Taken Report and the submissions made by the Project Proponent. The Committee noted that the Project Proponent has undertaken substantial compliance of the conditions stipulated in the existing Environmental Clearance. The Committee further noted that certain conditions involving time-bound infrastructure, such as covered coal storage sheds, pipe conveyor and augmentation of the primary dedusting system in SMS-2, are under implementation. Considering the progress made and the commitments furnished by the Project Proponent, the Committee advised that the revised timelines approved under the present amendment shall be adhered to and reflected in the six-monthly EC compliance reports.

8. In view of the above, the Committee found merit in the proposed amendment and amalgamation of the Environmental Clearances, considering that the proposal is essentially administrative, consequential and rationalizing in nature and does not involve any increase in production capacity, additional land acquisition or adverse environmental impact beyond the already approved configuration. The Committee recommended that while issuing the consolidated Environmental Clearance, all valid and applicable environmental safeguards stipulated in the earlier Environmental Clearances shall continue to remain enforceable, except to the extent specifically modified under the present amendment.

Recommendations of the Committee:

15. After deliberations, the Committee **recommended** the proposal for amendment in EC obtained from MoEF&CC vide F.No. J-11011/489/2009-IA.II(I) dated 25.07.2024 w.r.t. split/transfer of Coke Oven 6 and its associated facilities from EC of M/s JSWSL to M/s JVML along with land area of 27.55 Ha, rationalization of total project area with respect to split proposals, and amendment in certain EC conditions and further administrative consolidation/amalgamation of all previous Environmental Clearances into a single consolidated Environmental Clearance as detailed in relevant para above subject to additional terms and conditions.

Decision of MoEF&CC

16. 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 amendment in EC as mentioned in Para 5 subject to additional terms and conditions (**Annexure-I**).

17. Summary of Amalgamation Project: EC Conditions of JSW Steel Limited (Specific, General, Miscellaneous and Additional EC Conditions) after Amendment & Consolidation of existing ECs into a single EC are at **Annexure-II**.

18. Summary of proposed amendments / changes in environmental clearance of JSWSL is at **Annexure-III**.

19. Implementation status of the existing EC is at **Annexure-IV**.

20. 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.

21. 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.

22. 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.

23. 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.

24. 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.
9. Guard File/Monitoring File/Website/Record File/Parivesh Portal.

Copy To

1. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in

2. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
3. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in

Annexure 1

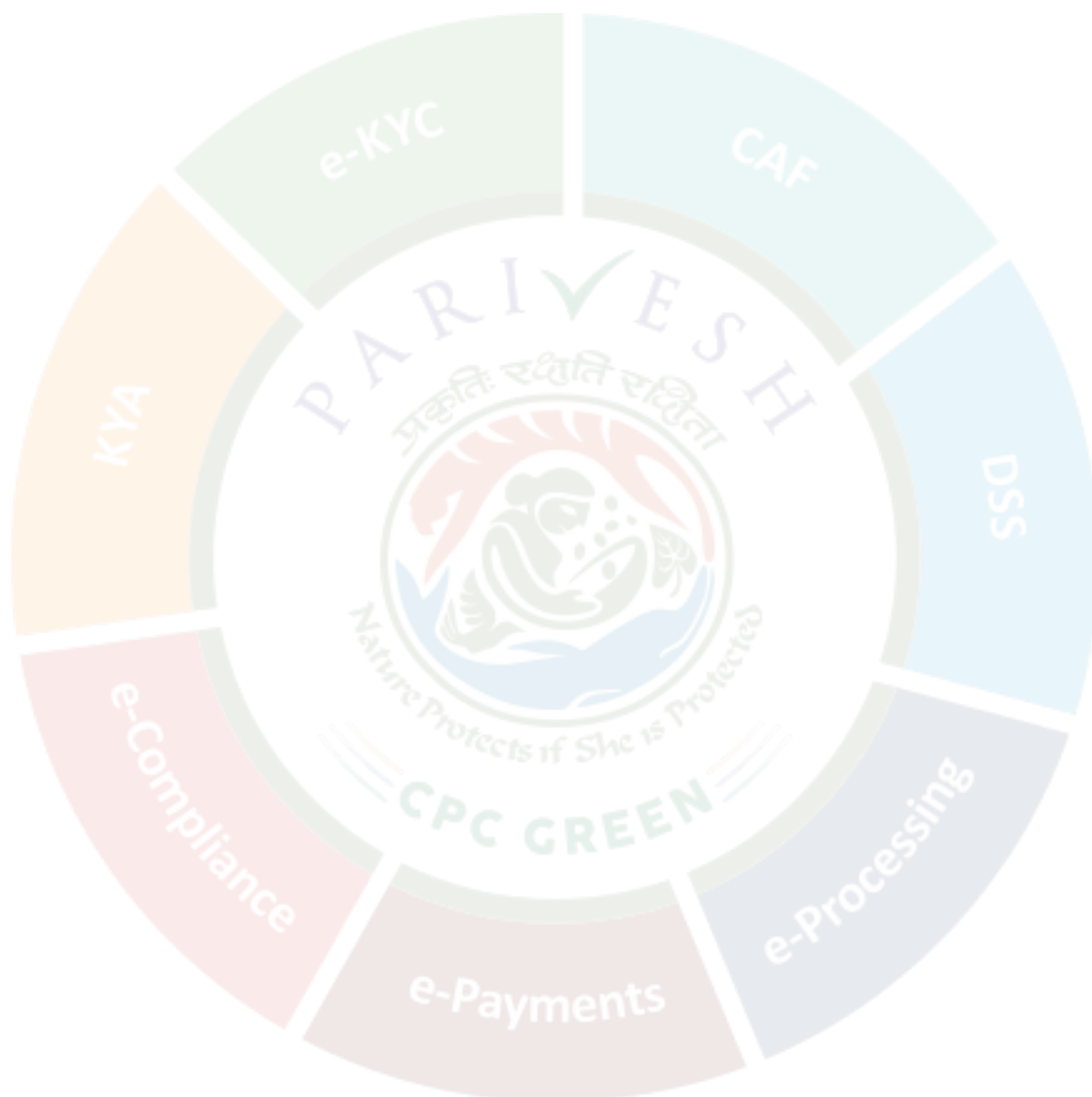
Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))

1. Specific

S. No	EC Conditions
1.1	Project Proponent shall complete installation of covered coal storage sheds by 31.12.2026, as committed. No further extension of timeline shall be granted.
1.2	84 km pipe conveyor to be completed within two years with six-monthly progress reports given with photographs and geo-coordinates of the completed works.
1.3	The augmentation and commissioning of the primary dedusting system in SMS-2 shall be completed by 31.10.2026 as committed. Compliance shall be verified by the Regional Office, MoEF&CC.
1.4	Greenbelt equivalent to 33% of the revised project area (834.84 ha) shall continue to be maintained at all times. Any reduction in greenbelt due to future land rationalization shall be compensated within the revised project boundary.
1.5	Continuous data from all CEMS and CAAQMS shall be integrated with CPCB/SPCB servers and uninterrupted data transmission shall be ensured.
1.6	The amalgamation of Environmental Clearances shall be purely administrative in nature and shall not be construed as grant of any additional production capacity, land area or change in the approved project configuration, except as specifically approved under the present amendment.
1.7	The amalgamation is subject to the condition that the consolidated EC shall clearly incorporate all applicable conditions from the existing ECs, after removing duplication and as amended in the instant proposal, and ensuring that no environmental safeguard, mitigation measure or compliance obligation is compromised.
1.8	The PP is also advised to make public the amended and amalgamated environmental clearance granted along with the environmental conditions and safeguards, PH commitments at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
1.9	The revised geographical coordinates, land area and project configuration approved under the present amendment shall be read in conjunction with the corresponding amendment proposal of M/s. JSW Vijayanagar Metalics Limited (JVML) [Proposal no. IA/KA/IND1/576112/2026 dated 25.05.2026], which has been considered by the Committee in the same meeting. The Project Proponent shall ensure that the project boundary, land area and project configuration as approved herein remains consistent with the final approved boundary of JVML, and any discrepancy, if observed, shall be suitably aligned through appropriate regulatory approvals.

Additional EC Conditions

Not Applicable..



Summary of Amalgamation Project: EC Conditions of JSW Steel Limited (Specific, General, Miscellaneous and Additional EC Conditions) after Amendment & Consolidation of existing ECs into a single EC

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
A. SPECIFIC CONDITIONS			
1.	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. (EC Dated 25.07.2024, 29.11.2021, 01.10.2015, 03.07.2008, 07.05.2007, 30.06.2006, 19.01.2001, 06.03.1995)	AMENDED EC CONDITION Green belt shall be developed in 33.95% (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.	To avoid overlapping of EC proposals, change in area of Green Belt as per change in Total Plant area after reduction in area green belt percentage minimum of 33% remains the same.
2.	Project proponent shall install covered sheds for coal storage in an area of 32325 sqm by 30-06-2024. (EC dated 25.07.2024, 29.11.2021)	AMENDED EC CONDITION Project proponent shall install covered sheds for coal storage in an area of 32325 sqm by 31.12.2026.	The project got extended due to clearances in international consignment. Now, the project is on track and will be completed by 31.12.2026.
3.	84 km long pipe conveyor shall be installed by 31/03/2028 as committed. (EC dated 25.07.2024, 29.11.2021 & 01.10.2015)	AMENDED EC CONDITION 84 km long pipe conveyor shall be installed after obtaining necessary clearances and ROW.	Presently, 37.5 KM length of Pipe Conveyor is under operation. Remaining shall be installed within 2 years after obtaining necessary Forest clearances and ROW.
4.	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 following measures: - i. Pipe conveyor, ii. Use of by product gas in place of coal and iii. Covered shed.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	(EC Dated 29.11.2021, 25.07.2024 & 01.10.2015)		
5.	Environment Clearance for the new township project shall be obtained from the concerned competent authority. (EC Dated 25.07.2024 & 01.10.2015)	REVISED EC CONDITION Environment Clearance for the new township project shall be obtained from the concerned competent authority Provision shall be made for the housing of construction labor outside the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. if any. The housing may be in the form of temporary structures to be removed after the completion of the project.	
6.	PP shall ensure Control of rooftop emissions from SMS 1 & 2 and Install Primary De-dusting system in SMS 2 by 31.03.2025. (EC Dated 25.07.2024 & 29.11.2021)	AMENDED 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.	Necessary installation of APC system is completed for SMS-1. In SMS-2. There are 4 converters (D, E, F and G). The augmentation of D, F and G convertors are completed. The augmentation of E is under progress. The same will be completed by 31.10.2026.
7.	PP shall ensure regular monitoring and maintenance of Junction houses in raw material handling area to control fugitive emissions. (EC Dated 25.07.2024, 29.11.2021, 01.10.2015, 03.07.2008, 19.01.2001, 06.03.1995)	REVISED EC CONDITION In plant control measures for checking the fugitive emissions from all vulnerable sources like junction houses/spillage/raw materials handling (Loading, unloading, screening) and storage etc, shall be provided. Further, specific measures like provision of dust extraction and suppression system consisting of water sprinkling, suction hoods,	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
		fans, cyclones, bag filters, ventury scrubber etc. shall be installed at material transfer points and raw material handling areas. Fugitive emissions should be regularly monitored and data records maintained.	
8.	Desulfurization of Coke Oven Gas, use of low Sulphur coal, Flue Gas Desulphurization in captive power plant shall be adopted to control SO2 emissions. (EC Dated 29.11.2021 & 25.07.2024, 01.10.2015, 03.07.2008)	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 SO2 emissions. Coke oven gases after by-product shall be used as supplementary fuel. - Top gases from the blast furnace shall be cleaned by gas cleaning devices. Dust extraction/fume extraction system with ESPs and stack shall be provided to stock house and cast house. Secondary fumes shall be captured by fume extraction system generated during hot metal and liquid steel transfer points. - Dust emissions from calcining plant shall be controlled by bag filters. - Emissions of SO2, NOx and CO from re- heating furnace shall be controlled. The steam generators shall be provided with low NOx burners to reduce NOx emissions. - Dust suppression/dust extraction system shall be provided to control fugitive emissions.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
9.	Project proponent shall install 6 Continuous Ambient Air Quality Monitoring Stations (CAAQMS). (EC Dated 25.07.2024, 29.11.2021, 01.10.2015, 03.07.2008, 07.05.2007, 19.01.2001, 06.03.1995)	REVISED EC CONDITION Project proponent shall install 6 Continuous Ambient Air Quality Monitoring Stations (CAAQMS). Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bangalore and the SPCB/CPCB once in six months.	
10.	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. 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. CO2 injection for pH control in SMS. j. Single oven pressure control in Coke Ovens to control Charging Emissions along with CGT car and HPLA (EC Dated 29.11.2021 & 25.07.2024)	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. 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. CO2 injection for pH control in SMS. j. Single oven pressure control in Coke Ovens to control Charging Emissions along with CGT car and HPLA	
11.	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 &	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. Regular report regarding end use of solid/hazardous waste shall be submitted to the Ministry's	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	sludge collected from air and water pollution control equipment. 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 to 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. (EC Dated 29.11.2021 & 25.07.2024, 01.10.2015, 03.07.2008, 19.01.2001 & 06.03.1995)	Regional Office at Bangalore, SPCB and CPCB. 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. 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. 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) 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. x. SSRP plant for sustainable utilization of resources for recovery of iron from slime. xi. Carbon Capture Unit in Blast Furnaces for CO2 Sequestering (Reduction in CO2 emission by approx. 50%).	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
		xii. Ash shall be disposed as per Fly Ash Notification 2000 and its subsequent amendments	
12.	The recommendations of the approved Integrated Site-Specific Wildlife 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. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION The recommendations of the approved Integrated Site-Specific Wildlife 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.	
13	The house keeping should be improved in some areas such as steel melting shop and the blast furnace metal tapping side. (EC Dated 07.05.2007, 30.06.2006)	REVISED EC CONDITION (AS PER PREVIOUS EC) Regular housekeeping should be carried out to keep the premises clean.	
14	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. (EC Dated 25.07.2024, 01.10.2015, 03.07.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) - Coal fines shall be used in power plant. - 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. - All the BF slag shall be sent to cement units and SMS slag produced for construction material. - BOF slag shall be used in construction of slime pond. - Backfilling of mine voids with SMS slag shall be appropriately reflected in the Mine Plan and prior approval obtained thereof	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
		from Indian Bureau of Mines. vi. Sludge and bag filter dusts shall be recycled in sinter/pellet plant. vii. 0.3 MTPA briquetting plant 0.6 MTPA micro pellet plant shall be set up for use of dusts. viii. Used Refractory/debris shall be used in filling low lying areas. ix. Oily waste and organic sludge shall be incinerated in the existing gas fired incinerator and waste oil and decanter sludge shall be used in Coke ovens. x. Chrome sludge generated shall be dumped in secured waste dump and then finally sent to TSDF. xi. All the fly ash(ash/dust from ESP of WHRB and ash from AFBC boiler of CPP) shall be provided to cement and brick manufacturers/used in brick manufacturing for further utilization and Annual Returns shall be submitted to the Ministry's Regional Office at Bangalore. xii. Bottom ash shall be disposed off in a suitably designed landfill as per CPCB guidelines to prevent leaching to the sub-soil and underground aquifer. xiii. All the other solid wastes shall be properly disposed off in an environmentally friendly manner.	
	Regular submission of compliance report to this Ministry including its Regional	REVISED EC CONDITION (AS PER PREVIOUS EC) Influent and effluent quality monitoring stations should be set	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	office at Bangalore, KSPCB and CPCB shall be ensured. (EC dated 03.07.2008, 19.01.2001, 06.03.1995, 07.05.2007, 03.07.2008)	up along with flow measuring devices. Regular monitoring should be carried out for the relevant parameters. Monitored data(Ambient Air quality, Stack emissions, Water quality) along with its statistical analysis and interpretation in the form of report should be submitted through email to this Ministry and to the KSPCB and CPCB once in six months.	
B. GENERAL CONDITIONS			
I. STATUTORY COMPLIANCE			
1.	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. (EC dated 29.11.2021 & 25.07.2024)	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			
1.	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 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,	REVISED EC CONDITION The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission (particulate matter in the stacks shall not exceed 50mg/Nm ³ . Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit) as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	1986 or NABL accredited laboratories. (EC dated 29.11.2021, 25.07.2024, 03.07.2008, 01.10.2015)	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.	
2.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarterly through laboratories recognized under Environment (Protection) Act. 1986 or NABL accredited laboratories. (EC dated 25.07.2024, 01.10.2015, 03.07.2008, 30.06.2006, 07.05.2007, 06.03.1995 & 19.01.2001)	REVISED EC CONDITION In plant control measures like centralized de- dusting i.e, collection of fugitive emissions through suction hood and subsequent treatment through bag filters and any other device and finally emitted through a stack of appropriately designed height confirming to EPA Standards for induction & arc furnaces; bag filters; dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handling/Chemicals etc, shall be provided, so as to comply prescribed stack emission and fugitive emission standards. Further, specific measures like provision of dust extraction and suppression system consisting of water sprinkling, fume extraction system, suction hoods, fans, cyclones, bag filters, ventury scrubber etc. shall be installed at material transfer points and raw material handling areas(i.e, screening, loading, unloading, handling and storage of raw materials etc) to control secondary fugitive dust emissions.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
		The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarterly through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories and records maintained.	
3.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	
4.	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. (EC dated 29.11.2021 & 25.07.2024)	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.	
5.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	
6.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly. (EC dated 29.11.2021, 25.07.2024 & 01.10.2015)	REVISED EC CONDITION 1. Vehicular transportation of raw materials and finished products shall be kept to minimum. 2. Dust suppression systems shall be in place at transfer points. 3. All internal roads shall be black topped. 4. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, Shop floors, roofs, regularly.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
		5. A 3-tier avenue plantation using native species shall be developed along the roads.	
7.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	
8.	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) (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITON Facilities for spillage collection shall be provided for coal and coke on WHARF of coke oven batteries (Chain conveyors. Land based industrial vacuum cleaning facility).	
9.	Land-based APC system shall be installed to control coke pushing emissions. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Land-based APC system shall be installed to control coke pushing emissions.	
10.	Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber. (EC dated 29.11.2021 & 25.07.2024)	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.	
11.	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. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Vapor absorption system shall be provided in place of vapor compression system for cooling of coke oven gas in case of recovery type coke ovens.	
12.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	
13.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Design the ventilation system for adequate air changes as per prevailing norms to all tunnels, motor houses, Oil Cellars.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
14.	The particulate emissions from WHRB shall be controlled by installation of ESP as per the CPCB specification and particulate emissions shall not exceed 50mg/Nm ³ . Further, company shall install bag filter, suction hood, dust extraction device & fume extraction system to control air emissions. (EC Dated 03.07.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) The particulate emissions from WHRB shall be controlled by installation of ESP as per the CPCB specification and particulate emissions shall not exceed 50mg/Nm ³ .	
15	Air Pollution control measures shall include Pulse Jet Bag Filter of Up flow type, pneumatic conveying of dust, transport of materials in closed conveyors, wind screen in yards, DSS in yards. (EC dated 01.10.2015)	REVISED EC CONDITION (AS PER PREVIOUS EC) Air Pollution control measures shall include Pulse Jet Bag Filter of Up flow type, pneumatic conveying of dust, transport of materials in closed conveyors, wind screen in yards, DSS in yards.	
16	The company shall connect the pollution control equipments to DG set to ensure operation of these equipments during power failure. The company shall also provide interlocking system with the process equipments so that the plant automatically stops in case the pollution load exceeds the guaranteed limits. (EC dated 30.06.2006 & 07.05.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) The company shall connect the pollution control equipments to DG set to ensure operation of these equipments during power failure. The company shall also provide interlocking system with the process equipments so that the plant automatically stops in case the pollution load exceeds the guaranteed limits.	
III. WATER QUALITY MONITORING AND PRESERVATION			
1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these	REVISED EC CONDITON Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated.19th May, 1993 and 31st December,1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose. Liquid effluents including cooling water emanating from CPP and other sources as also the waste water from the ash pond	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (EC dated 29.11.2021, 25.07.2024, 01.10.2015, 03.07.2008, 06.03.1995)	area should be properly treated to conform to the standards stipulated by the State Pollution Control Board/prescribed under the Environment (Protection) Act, 1986. The project proponent shall install 24x7 continuous effluent discharge monitoring system with respect to standards prescribed in Environment Protection) Rules 1986 vide G.S.R 277 (E) dated 31" March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system front time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act. 1986 or NABL accredited laboratories and submit report to Ministry and its Regional Office.	
2.	The project proponent shall monitor regularly ground water quality at least twice a year (pre-and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories. (EC dated 29.11.2021, 25.07.2024, 01.10.2015)	REVISED EC CONDITON project proponent shall regularly monitor influent and effluent surface, sub-surface and ground water (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. PP shall ensure the treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
		Leachate study for the effluents generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bangalore, SPCB and CPCB.	
3.	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 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. (EC dated 29.11.2021, 25.07.2024, 01.10.2015, 03.07.2008)	REVISED EC CONDITION i. The treated waste water from coke oven, scrubbed water from BF & BOF gas cleaning, slab caster, CRM, power plant etc shall be treated and recycled/reused in the process and for greenbelt. ii. 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 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. iii. All the expansion units (as per EC Dtd: 2015) shall operate using state-of-art energy efficient technologies, environmental pollution prevention and control technologies and energy efficient measures including the 4Rs shall be implemented at every step of the plant operation.	
4.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards. (EC dated 29.11.2021 & 25.07.2024, 03.07.2008, 07.05.2007, 30.06.2006, 19.01.2001, 06.03.1995)	REVISED EC CONDITION Efforts should be made to recycle and reuse the treated liquid effluent to the extent possible and provide Sewage Treatment Plant for treatment of domestic wastewater to meet the prescribed standards. The treated water shall be specially used for raising green belt and meeting cooling water requirement. There should not be any discharge from the complex.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
5.	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. (EC dated 29.11.2021 & 25.07.2024)	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.	
6.	Tyre washing facilities shall be maintained at the entrance of the plant gates. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Tyre washing facilities shall be maintained at the Raw materials stock yards	All the inbound materials are majorly through Rakes, Pipe Conveyors and only small quantity of raw materials are transported through roads from nearest railway sidings. Further all the RMHS Yards located within the plant premises are at over 2 km from the main gates. To control the fugitive emissions / dust / mud at source the following measures are provided:- 1. Tyre washing facility near all RMHS Yards. 2. Dedicated jet water sprinklers along the haulage roads leading to main gates for suppression of dust due to movement of vehicles.

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
			3. 3 No's of dedicated road sweeping machines for internal roads near RMHS yards. 4. 2 No's of dedicated road sweeping machines for cleaning of external roads.
7.	Treated water from ETP of COBP shall not be used for coke quenching. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Treated water from ETP of COBP shall not be used for coke quenching.	
8.	Water meters shall be provided at the inlet to all unit processes in the steel plants. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Water meters shall be provided at the inlet to all unit processes in the steel plants.	
9.	The blow down from the system shall be treated in RO plant and reused as make up water. (EC dated 03.07.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) The blow down from the system shall be treated in RO plant and reused as make up water.	
IV. NOISE MONITORING AND PREVENTION			
1.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly Compliance report. (EC dated 29.11.2021 & 25.07.2024, 03.07.2008, 07.05.2007, 30.06.2006, 19.01.2001, 06.03.1995)	REVISED EC CONDITION The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).	
2.	The company should ensure that all employees wear protective gear depending on nature of operation. (EC dated 30.06.2006 & 07.05.2007, 06.03.1995)	REVISED EC CONDITION (AS PER PREVIOUS EC) The company should ensure that all employees wear protective gear depending on nature of operation. A monitoring report on noise pollution should be made	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
		available to this Ministry once in six months and to the State Pollution Control Board once in three months.	
V. ENERGY CONSERVATION MEASURES			
1	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	
2	Restrict Gas flaring to < 1%. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Restrict Gas flaring to < 1%.	
3	Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights. Parking around project area and maintain the same regularly (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights. Parking around project area and maintain the same regularly;	
4	Provide LED lights in their offices and residential areas. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Provide LED lights in their offices and residential areas.	
5	Ensure installation of regenerative/ recuperative type burners on all reheating furnaces. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Ensure installation of regenerative/recuperative type burners on all reheating furnaces.	
VI. WASTE MANAGEMENT			
1.	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. (EC dated 29.11.2021 & 25.07.2024)	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.	
2	Kitchen waste shall be composted or converted to biogas for further use (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Kitchen waste shall composted or converted to biogas for further use	
VII. GREENBELT			

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
1	The project proponent shall prepare GHG emissions inventory to the plant and shall submit the Programme for reduction of the same including carbon sequestration by trees. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION The project proponent shall prepare GHG emissions inventory to the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	
VIII. PUBLIC HEARING AND HUMAN HEALTH ISSUES			
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment HIRA) and Disaster Management Plan shall be implemented (EC dated 29.11.2021 & 25.07.2024, 01.10.2015, 06.03.1995)	REVISED EC CONDITION Necessary measures for prevention and control of fire and explosion hazards should be taken. Approval from competent authority should also be obtained, if necessary. A detailed unit wise Risk Analysis and assessment of the proposed storages within the plant premises based on maximum credible accident analysis should be done and detailed onsite and off-site Emergency Preparedness based on the Hazard identification and Risk Assessment HIRA) and Disaster Management Plan (DMP) linked to District- level DMP shall be prepared in consultation with district authorities and mock drills to be carried out periodically.	
2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms. (EC dated 29.11.2021 & 25.07.2024)	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.	
3	Occupational health surveillance of the workers shall be done on a regular basis and records maintained. (EC dated 19.01.2001, 30.06.2006, 07.05.2007, 03.07.2008, 29.11.2021 &	REVISED EC CONDITION Company shall develop an HSE Policy. All the permanent workers shall be covered under ESI Scheme. Occupational health surveillance of the workers shall be done and provisions made for	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	25.07.2024, 06.03.1995)	01.10.2015, treatment of its workers at the local sub-committee Nursing Homes & Hospitals in case of emergency. Annual Medical Check-up on some medical parameters like Blood test, Chest X-Ray, Eye test, Respiratory, Audiometry, Spirometry etc. shall be regularly conducted amongst the employees of the Company and records maintained thereof.	
IX. ENVIRONMENT MANAGEMENT			
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22- 65/2017-IA. III dated 30/09/2020. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22- 65/2017-IA. III dated 30/09/2020.	
2.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus and 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 shareholder's / 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. (EC dated 25.07.2024, 01.10.2015)	REVISED EC CONDITION The company shall have a well laid down environmental policy duly approve by the Board of Directors. i. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus and infringements/deviation/violation of the environmental / forest / wildlife norms/conditions. ii. Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions iii. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and/ or shareholder's / stake holders.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization. (EC dated 29.11.2021 & 25.07.2024, 06.03.1995)	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.	
4.	The environment wing of the company and for this Plant as well as of the company shall be strengthened with qualified personnel, state-of-art laboratory, infrastructure, etc and regular records of the environmental data including on-line monitoring-of emissions shall be maintained. (EC dated 01.10.2015, 06.03.1995)	REVISED EC CONDITION (AS PER PREVIOUS EC): The environment wing of this Plant as well as of the company shall be strengthened with qualified personnel, setup of state-of-art laboratory facilities (for collection and analysis of samples under supervision of the competent technical personnel), infrastructure, etc. Regular records of the environmental data including on-line monitoring-of emissions shall be maintained. The environment wing of the company shall report directly to Chief Executive.	
X. MISCELLANEOUS			
1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently (EC dated 29.11.2021 & 25.07.2024, 03.07.2008, 19.01.2001, 30.06.2006 & 07.05.2007)	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 least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently	
2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats	REVISED EC CONDITION The copies of the environmental clearance shall be submitted by the project proponents to the	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	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 (EC dated 29.11.2021 & 25.07.2024)	Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt	
3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on Half-yearly basis. (EC dated 29.11.2021 & 25.07.2024)	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.	
4	The project proponent shall monitor the criteria pollutants level namely: PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION The project proponent shall monitor the criteria pollutants level namely: PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	
5	The project proponent shall submit six- monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. (EC dated 29.11.2021 & 25.07.2024)	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.	
6	The project proponent shall submit the environmental statement for each Financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently	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	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	and put on the website of the company. (EC dated 29.11.2021 & 25.07.2024)	and put on the website of the company.	
7	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project. (EC dated 29.11.2021 & 25.07.2024, 19.01.2001)	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.	
8	I. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee. (EC dated 25.07.2024) II. A CSR Plan shall be prepared and implemented in consultation with the local villages and administration. Issues raised/covered during public hearing and incorporated in the EMP and CSR Plan. During construction phase of the expansion project, an expenditure of about minimum 5% of the capital expenditure shall be earmarked for CSR activity covering the broad areas of education, health, infrastructure, water and power spread over 5 years/period of	REVISED EC CONDITION (AS PER PREVIOUS EC) The project proponent shall comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in surrounding villages like community development programme, educational programmes, drinking water supply and health care as per previous EC:- i. Commitment made during public hearing such as installation of one online monitoring station in Vaddu village during 2006 shall be complied as per EC File No: J-11011/377/2005-IA II(I) Dtd: 30.06.2006). ii. All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 30.12.2010 as part of	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	construction of project. During operation phase of the project, the CSR activity will be funded based on 2% of the profit during operation phase of the project. 70% of the employment shall be made from the local population. The activities shall include skill development, education for the girl child, common infrastructure, alternate livelihood schemes and creation of SHGs, etc. The PP shall as part of the CSR Plan meet the drinking water requirements (pipeline) of neighbouring villages from the State authorities. In addition, villages such as Dharmasagara and Bandri, which have a fluoride problem shall also be provided drinking water. All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 30.12.2010 shall be satisfactorily implemented and details of which shall be furnished as part of CSR. A separate budget for implementing the same shall be allocated made. The annual capital and recurring expenditure on CSR - village-wise and activity-wise shall be uploaded on the company website and also included in the Annual Report of the company to the Ministry's Regional Office at Bangalore (EC dated 01.10.2015)	EC File No. J-11011/489/2009-IA.II (I) Dtd: 01.10.2015 shall be satisfactorily implemented. iii. A CSR Plan shall be prepared in consultation with the local villages and administration. Issues raised/covered during public hearing and incorporated in the EMP and CSR Plan submitted as part of EC File No: J-11011/489/2009-IA.II(I) Dtd: 29.11.2021 shall be implemented. iv. During operation phase of the project as part of EC File No: J-11011/489/2009-IA.II(I) Dtd: 29.11.2021, the CSR activity shall be carried out as per the statutory norm in surrounding villages which shall include skill development, education for the girl child, common infrastructure, alternate livelihood schemes and creation of SHGs, etc. during operation phase of the project. v. The PP shall as part of the CSR Plan meet the drinking water requirements of neighbouring villages from the State authorities. In addition, villages such as Dharmasagara and Bandri shall also be provided with drinking water. vi. The project proponent shall abide by all the commitments and recommendations made in	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	III. Commitment made during public hearing such as installation of one online monitoring station in Vaddu village during 2006 shall be complied. (EC dated 07.05.2007 & 30.06.2006) IV. The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment. An action plan on these measures shall be submitted to the State Pollution Control Board within three months from the date of issue of this letter. (EC dated 07.05.2007 & 30.06.2006)	the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee as part of EC File No. J-11011/489/2009-IA.II (I) Dated: 25.07.2024.	
9	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). (EC dated 06.03.1995, 19.01.2001, 03.07.2008, 01.10.2015, 29.11.2021 & 25.07.2024, 30.06.2006 & 07.05.2007)	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). In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures, if required.	
10	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. (EC dated 29.11.2021 & 25.07.2024)	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.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
11	The Ministry may revoke or suspend the clearance, it implementation of any of the above conditions is not satisfactory. (EC dated 06.03.1995, 19.01.2001, 30.06.2006, 07.05.2007, 03.07.2008, 29.11.2021 & 25.07.2024)	REVISED EC CONDITION The Ministry may revoke or suspend the clearance, it implementation of any of the above conditions is not satisfactory.	
12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions. (EC dated 19.01.2001, 30.06.2006, 07.05.2007, 03.07.2008 & 25.07.2024, 06.03.1995)	REVISED EC CONDITION 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.	
13	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 Office by furnishing the requisite data/ information / monitoring reports. (EC dated 29.11.2021 & 25.07.2024)	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 Office by furnishing the requisite data/ information / monitoring reports.	
14	Any appeal against this EC shall lie with the National Green Tribunal, if preferred. within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. (EC dated 29.11.2021 & 25.07.2024)	REVISED EC CONDITION Any appeal against this EC shall lie with the National Green Tribunal, if preferred. within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
15.	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	REVISED EC CONDITION (AS PER PREVIOUS EC) The project proponent shall judiciously spend the earmarked funds (both recurring and non-recurring) as per previous EIA/EMP Reports towards the environmental pollution control measures to implement the conditions stipulated by the MoEF as well as the State Government. The funds so	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	(EC dated 19.01.2001, 30.06.2006, 07.05.2007 & 03.07.2008)	provided shall not be diverted for any other purpose.	
16	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in surrounding villages like community development programme, educational programmes, drinking water supply and health care etc. (EC dated 03.07.2008, 19.01.2001, 30.06.2006 & 07.05.2007)	REVISED EC CONDITION (AS PER PREVIOUS EC) The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in surrounding villages like community development programme, educational programmes, drinking water supply and health care etc.	
C. ADDITIONAL SPECIFIC CONDITIONS			
1	The PP shall strictly comply with the conditions as per the submitted action plan and within the timeframe as committed with respect to the partially/ non-complied conditions as reported by IRO. No further extension of time period with respect to the non-complied specific conditions will be granted. (EC dated 25.07.2024)	REVISED EC CONDITION The PP shall strictly comply with the conditions as per the submitted action plan and within the timeframe as committed with respect to the partially/ non-complied conditions as reported by IRO. No further extension of time period with respect to the non-complied specific conditions will be granted.	
2	M/s. JSWSL, being principal lessor shall be held responsible for compliance of all the conditions stipulated in EC dated 29.11.2021. (EC dated 25.07.2024)	REVISED EC CONDITION M/s. JSWSL, being principal lessor shall be held responsible for compliance of all the conditions stipulated in EC.	
3	The PP shall ensure to operate the airport facility only after valid and requisite permissions required to operate the same. (EC dated 25.07.2024)	REVISED EC CONDITION The PP shall ensure to operate the airport facility only after valid and requisite permissions required to operate the same.	
4	The PP shall install the requisite number of CAAQMS linked with CPCB server at designated places. (EC dated 25.07.2024)	REVISED EC CONDITION The PP shall install the requisite number of CAAQMS linked with CPCB server at designated places.	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
5	The PP shall ensure that all the subsidiaries within JSW Complex shall have relevant permissions related to land,EC/FC/CTE/CTO and associated permissions required to operate such facilities along with separate entry/exit gates. (EC dated 25.07.2024)	REVISED EC CONDITION The PP shall ensure that all the subsidiaries within JSW Complex shall have relevant permissions related to land,EC/FC/CTE/CTO and associated permissions required to operate such facilities along with separate entry/exit gates.	
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 JSW Complex along with EC/CFO details. (EC dated 25.07.2024)	REVISED EC CONDITION The PP shall ensure that there shall be sign boards at prominent locations covering name, capacity and area of the operating units within the JSW Complex along with EC/CFO details.	
7	The PP shall comply with the condition for development and maintenance of greenbelt in at least 33% area of the JSW complex as principal lessor. (EC dated 25.07.2024)	REVISED EC CONDITION The PP shall comply with the condition for development and maintenance of greenbelt in at least 33% area of the JSW complex as principal lessor.	
8	The PP shall widely publicize the executive summary of the EC split proposal and publish the split ECs in local newspapers. (EC dated 25.07.2024)	REVISED EC CONDITION The PP shall widely publicize the grant of EC pertaining to Amendment and Split of EC proposals and publish the ECs in local newspapers.	
9	The PP shall strictly comply with the directions of State Forest Department, obtain approval and implement the Integrated Site Specific Wildlife Conservation plan (ISSWLCP) as per the defined timelines. (EC dated 25.07.2024)	REVISED EC CONDITION The PP shall strictly comply with the directions of State Forest Department, obtain approval and implement the Integrated Site Specific Wildlife Conservation plan (ISSWLCP) as per the defined timelines.	
10	All the three entities i.e. JSWSL, JVML and JSWCL shall undertake Village Adoption programme as committed. (EC dated 25.07.2024)	REVISED EC CONDITION All the three entities i.e. JSWSL, JVML and JSWCL shall undertake Village Adoption programme as committed.	
11	All the other terms and conditions stipulated in environmental clearance vide letter no vide lr.no. EC21A008KA165146 dated	REVISED EC CONDITION All the other terms and conditions stipulated in environmental clearance vide letter no vide EC Identification no. EC24A1001KA5580178S dated	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	29/11/2021 shall remain unchanged. (EC dated 25.07.2024)	25/07/2024 shall remain unchanged.	
12	In the case of conflicts between any of the group companies that are splitted from JSWSL, JSWSL shall be responsible for the conditions stipulated in EC dated 29.11.2021. (EC dated 25.07.2024)	REVISED EC CONDITION In the case of conflicts between any of the group companies that are splitted from JSWSL, JSWSL shall be responsible for the conditions stipulated in EC.	
13	PP shall ensure no conflicts in sharing common facilities in day-to-day operation. (EC dated 25.07.2024)	REVISED EC CONDITION PP shall ensure no conflicts in sharing common facilities in day-to-day operation.	
14	The project authorities must strictly adhere to the stipulations made by the Karnataka Pollution Control Board and the State Government. (EC dated 06.03.1995, 19.01.2001, 30.06.2006, 07.05.2007 & 03.07.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	
15	The off gases from Corex plant should be cleaned in venturi scrubbers before being sent to the power plant. Electrostatic precipitators (ESPs) with operation efficiency of not less than 99.8 per cent should be provided so as to limit the emissions of particulates below 150 mg/Nm ³ under any circumstances falling which the plant should be shut down.(Cyclone separators, scrubbers, bag filters etc.) should be provided for removing particulate matter from gas streams so as to limit the emissions well below the prescribed limit of 150 mg/Nm ³ . (EC dated 06.03.1995 & 19.01.2001)	REVISED EC CONDITION (AS PER PREVIOUS EC) The off gases from Corex plant should be cleaned in venturi scrubbers before being sent to the power plant. Electrostatic precipitators (ESPs) with operation efficiency of not less than 99.8 per cent should be provided so as to limit the emissions of particulates below 150 mg/Nm ³ under any circumstances falling which the plant should be shut down.(Cyclone separators, scrubbers, bag filters etc.) should be provided for removing particulate matter from gas streams so as to limit the emissions well below the prescribed limit of 150 mg/Nm ³ .	
16	The gaseous emissions from the various process units should conform to the standards prescribed by the concerned	REVISED EC CONDITION (AS PER PREVIOUS EC) The gaseous emissions from various process units including secondary	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	authorities, from time to time. At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should be put out of operation immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency. (EC dated 06.03.1995, 19.01.2001, 30.06.2006 & 07.05.2007, 03.07.2008, 01.10.2015)	fugitive emissions from all the source should conform to the load/mass based standards notified by this Ministry on 19th May, 1993 & G.S.R. 414(E) dated 30th May, 2008 and standards prescribed from time to time. The state Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission level should go beyond the prescribed standards, In the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.	
17	The above conditions will 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 and the Public Liability Insurance Act, 1991 along with their amendments and rules. (EC dated 06.03.1995, 19.01.2001, 30.06.2006, 07.05.2007 & 03.07.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) The above conditions will 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 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	
18	The proponent shall adopt water conservation measures to reduce requirement of make-up water. The wastewater generated from the indirect cooling circuit shall be routed through the cooling tower. Coke from the coke oven shall be cooled in dry cooling plant to eliminate use of quenching water. The wastewater of gas cleaning plant (GCP) of blast furnace and steel melt shop containing suspended solids shall	REVISED EC CONDITION (AS PER PREVIOUS EC) The company shall undertake rainwater-harvesting and conservation measures to reduce intake of water from Almatti and Tungabhadra Dam and for requirement of make-up water and to recharge the groundwater in the area. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	be clarified in the wastewater treatment plant and recycled to the waste gas cleaning units. Wastewater from the CCM shall be treated to remove scale and oil and treated water shall be recycled after cooling. The domestic wastewater shall be treated in a Sewage Treatments plant (STP) and used for dust suppression and green belt development. (EC dated 01.10.2015, 03.07.2008, 30.06.2006 & 07.05.2007, 19.01.2001)	requirement shall be met from other sources. The following measures shall be implemented:- - The wastewater generated from the indirect cooling circuit shall be routed through the cooling tower. - Coke from the coke oven shall be cooled in dry cooling plant to eliminate use of quenching water. - The wastewater of gas cleaning plant (GCP) of blast furnace and steel melt shop containing suspended solids shall be clarified in the wastewater treatment plant and recycled to the waste gas cleaning units. - Wastewater from the CCM shall be treated to remove scale and oil and treated water shall be recycled after cooling. - The domestic wastewater shall be treated in a Sewage Treatments plant (STP) and used for dust suppression and green belt development	
19	Total water requirement shall not exceed 29.5 MGD to be met from Almatti and Tungabhadra Dam. The water consumption shall not exceed as per the standard prescribed for steel plants. Use of air cooled condensers shall be explored and closed circuit system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluents shall be treated and used for plant processes/operations, dust suppression and green belt development. No effluents shall be discharged and 'zero' discharge shall be adopted. Domestic	REVISED EC CONDITION (AS PER PREVIOUS EC) Total water requirement for JSWSL Integrated Steel Plant with capacity 13 MTPA shall not exceed 2,78,076 m³/day as per EC File No. J-11011/489/2009-IA.II (I) Dated 25.07.2024 to be met from Almatti and Tungabhadra Dam as per the agreement signed with the State Govt. The water consumption shall not exceed as per the standard prescribed for steel plants. Use of air cooled condensers shall be explored and closed	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	wastewater will be treated in the Sewage Treatment Plant (EC dated 01.10.2015, 03.07.2008)	circuit system shall be provided to reduce water consumption and water requirement shall be modified accordingly. b. All the effluents shall be treated and used for plant processes/operations, dust suppression and green belt development. c. The treated waste water from coke oven, scrubbed water from BF & BOF gas cleaning, slab caster, CRM, power plant etc shall be treated and recycled/reused in the process and for greenbelt. d. The domestic wastewater shall be treated in a Sewage Treatments plant (STP) and used for dust suppression and green belt development. e. The blow down from the system shall be treated in RO plant and reused as make up water. No effluent shall be discharged outside the factory premises and “Zero” discharge shall be adopted.	
20	Continuous monitoring of the Total Organic Carbon (TOC) shall be done at the outlet of the ETP(BOD plant) and the wastewater shall be used for wet quenching (EC dated 03.07.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) Continuous monitoring of the Total Organic Carbon (TOC) shall be done at the outlet of the ETP(BOD plant) and the wastewater shall be used for wet quenching	
21	All the recommendations made in the CREP for the Coke oven plants shall be implemented. (EC dated 03.07.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) All the recommendations made in the CREP for the Coke oven plants shall be implemented.	
22	A guard pond of adequate holding capacity should be provided to cope-up with the	REVISED EC CONDITION (AS PER PREVIOUS EC) A guard ponds of adequate holding capacity should be provided to	

Sr No.	EC Conditions from Existing ECs	EC Conditions after proposed Amendment & Consolidation of existing ECs Into a Single EC	Remarks
	effluent generated during the process disturbances/ ETP malfunctioning. The contributing unit should be immediately shut down and should not be restarted until the control measures are rectified to attain the desired efficiency. (EC dated 06.03.1995)	cope-up with the effluent generated during the process disturbances/ ETP malfunctioning. The contributing unit should be immediately shut down and should not be restarted until the control measures are rectified to attain the desired efficiency.	
23	The PP shall obtain assured raw materials (particularly iron ore and coal) from designated sources for long-term supply and shall enter into long-term MOUs with producers/sellers of raw materials used in steel making. Washed coal shall be used. (EC dated 01.10.2015, 03.07.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) The PP shall obtain assured raw materials (particularly iron ore and coal) from designated sources for long-term supply and shall enter into long-term MOUs with producers/sellers of raw materials used in steel making. Washed coal shall be used.	
24	Power from the CPP of 1430 MW capacity shall be entirely utilized for the plant operations only. The 600 MW expansion Unit of the CPP is coal based and any change in configuration or capacity shall be made only with prior approval of this Ministry. (EC dated 01.10.2015)	REVISED EC CONDITION (AS PER PREVIOUS EC) Power from the CPP of 1430 MW capacity shall be entirely utilized for the plant operations only. The 600 MW expansion Unit of the CPP is coal based and any change in configuration or capacity shall be made only with prior approval of this Ministry.	
25	SO ₂ emissions from sinter plant shall be controlled by installing ESP and scrubbers. Secondary emissions from sinter plant shall also be controlled and monitored. (EC dated 03.07.2008)	REVISED EC CONDITION (AS PER PREVIOUS EC) SO ₂ emissions from sinter plant shall be controlled by installing ESP and scrubbers. Secondary emissions from sinter plant shall also be controlled and monitored.	
26	The requirement of land for ash disposal should be based on ash utilisation plan. Ash pond area should be properly lined to avoid ground water contamination. (EC dated 06.03.1995)	REVISED EC CONDITION (AS PER PREVIOUS EC) Ash pond area should be properly lined to avoid ground water contamination.	

Summary of proposed amendments / changes in environmental clearance of JSWSL

S l.	Description	Reference as per EC Dtd: 25.07.2024 issued to JSWSL	JSWSL Existing EC condition	Revised Project Information Matrix including raw material, Environment Management Plan and waste generation after Proposed Split/Transfer of EC	
1	Annexure – I: Final Configuration of Plant facilities after proposed Split/Transfer/Amendment application.	Annexure – I	COKE OVEN FACILITIES CO3 – 1.5 MTPA CO4 – 2 MTPA CO5 – 3 MTPA CO6 – 1.5 MTPA	JSWSL CO FACILITIES CO3 – 1.5 MTPA CO4 – 2 MTPA CO5 – 3 MTPA	SPLIT/TRANSFER OF CO-6 FACILITY TO JVML CO6 – 1.5 MTPA
2	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 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 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.	Land Details:- Total Area – 2460.58 Ha Greenbelt Area – 834.84 Ha(33.9%) Note: 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.	Land Details:- CO6 Area – 27.55 Ha
3	Annexure – II: Project Information, EC Responsibility and Environment	Annexure – II (Specific Condition 25)	Iron ore fines - 2,43,87,500 Iron ore lumps- 10,27,500 Coking coal - 1,08,00,000 COREX coal - 11,20,000	Iron ore fines - 2,43,87,500 Iron ore lumps- 10,27,500 Coking coal – 84,75,000 COREX coal - 11,20,000	Coking coal – 23,25,000 Pet Coke(<3% S) – 2,32,500(10% of Feed Stock to replace

S l.	Description	Reference as per EC Dtd: 25.07.2024 issued to JSWSL	JSWSL Existing EC condition	Revised Project Information Matrix including raw material, Environment Management Plan and waste generation after Proposed Split/Transfer of EC	
	al Liability Matrix		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	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.	Coking coal, based on availability)
4	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition on 25(a))	JSWSL Procures Raw material for both JSWSL and JVML for making Steel. The beneficiation is done inside the Beneficiation plant of	- JSWSL Procures Raw material for both JSWSL and JVML, for making Steel. - The beneficiation is done inside	Raw Material Interdependence The Materials required for preparation of Steel is sourced

S l.	Description	Reference as per EC Dtd: 25.07.2024 issued to JSWSL	JSWSL Existing EC condition	Revised Project Information Matrix including raw material, Environment Management Plan and waste generation after Proposed Split/Transfer of EC	
			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 plant of JSWSL and is transferred to JVML - The material transfer from JSWSL to JVML is through either Conveyors/ Wagons. - The conveyors/ Wagons/Road are managed and owned by JSWSL.	from JSWSL. JVML has resource sharing agreement with JSWSL
5	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 26)	1,21,541 m3/day	1,17,843 m3/day	3698 m3/day (CO 6 Facility)
6	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 27)	1434 MW	1420 MW	14 MW (CO 6 Facility)
7	Annexure – II: Project Information, EC Responsibility and	Annexure – II (Specific Condition 28)	- Coke Oven gas (COG) - 279 K Nm3/hr - BF Gas (BFG) - 1914 K Nm3/hr	Coke Oven gas (COG) - 229 K Nm3/hr	Coke Oven gas (COG) - 50 K Nm3/hr

S l.	Description	Reference as per EC Dtd: 25.07.2024 issued to JSWSL	JSWSL Existing EC condition	Revised Project Information Matrix including raw material, Environment Management Plan and waste generation after Proposed Split/Transfer of EC	
	Environmental Liability Matrix		• COREX Gas - 315 K Nm3/hr • DRI Gas- 200 K Nm3/hr • LD Gas 128 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	• BF Gas (BFG) - 140 K Nm3/hr (CO 6 Facility)
8	Annexure – II: Project Information, EC Responsibility and Environmental Liability Matrix	Annexure – II (Specific Condition 29)	• PM 676.3 g/s • PM2.5 181.3 g/s • SO2 1817.4 g/s • NOx 1610.5 g/s	• PM 666.56 g/s • PM2.5 176.04 g/s • SO2 1750.8 g/s • NOx 1543.6 g/s	• PM 9.74 g/s • PM2.5 5.26 g/s • SO2 66.6 g/s • NOx 66.9 g/s (CO 6 Facility)

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	CO1 (NR)	Dismantled	Dismantled	-
		CO2 (NR)	Dismantled	Dismantled	-
		CO3	1.5 MTPA	Operational	1.5 MTPA
		CO4	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	Casters	Slab Caster 1	3.2 MTPA	Operational	3.2 MTPA
		Slab Caster 2	6.4 MTPA	Operational	6.4 MTPA

Sr No.	Facility	Unit	As per existing EC & CTE	Implementation Status	As per latest CFO
		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