



सत्यमेव जयते

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



Date 25/07/2024



To,

M/s. JSW CEMENT LIMITED
JSW Cement Limited, Vijayanagar Works JSW Centre, OPP: MMRDA Ground, Bandra Kurla Complex, Bandra (East), Mumbai-400051
Email: ceo.cement@jsw.in

Ref: **Environmental Clearance granted to JSW Steel Ltd vide no. IA-J-11011/489/2009-IA-II (INDI) dated 29/11/2021.**

Subject: **Proposal for Splitting of existing EC 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 - Splitting of EC to M/s. JSW CEMENT LIMITED -regarding.**

Sir/Madam,

This refers to your proposal no **IA/KA/IND1/459265/2024** dated **20.01.2024** along with copy of Addendum EIA report, Form – 12 [Application for Splitting of Environmental Clearance] and certified compliance report seeking splitting of existing EC of JSW Steel Ltd, Vijayanagar works of 18 MTPA Steel plant, 1490 MW CPP along with 2.2 MTPA Slag cement between JSWSL, JVML and JSWCL, with a final configuration of 13 MTPA Steel, 1490 MW of CPP and 0.2 MTPA Slag cement unit to remain with JSW STEEL LTD, Transfer of 5 MTPA Steel to JVML and Transfer of 2 MTPA Slag Grinding Unit to Existing 4 MTPA Slag cement plant of JSWCL at Vijayanagar works, Toranagallu, Ballari, Karnataka under the provisions of the EIA Notification, 2006 for the project mentioned above. Further, the PP has uploaded the information on portal on 1.04.2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A1001KA5580178S
(ii) File No.	J-11011/489/2009-IA.II(I)
(iii) Clearance Type	Splitting of EC

(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous)
(vi) Sector	IND1 Proposal for Split of existing EC of JSW Steel Ltd, Vijayanagar works of 18 MTPA Steel plant, 1490 MW CPP along with 2.2 MTPA Slag cement between JSWSL, JVML and JSWCL, With a final configuration of 13 MTPA Steel, 1490 MW of CPP and 0.2 MTPA Slag cement unit will remain for JSW STEEL LTD, Transfer of 5 MTPA Steel to JVML and Transfer of 2 MTPA Slag Grinding Unit to Existing 4 MTPA Slag cement plant of JSWCL at Vijayanagar works, Toranagallu, Ballari, Karnataka
(vii) Name of Project	
(viii) Name of Company/Organization	M/s. JSW CEMENT LIMITED
(ix) Location of Project (District, State)	Ballari, Karnataka
(x) Issuing Authority	MOEF&CC

3. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity listed at S. No. 3(a) Metallurgical industries (ferrous and non-ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level.

4. The proposal is considered in the 56nd meeting of the EAC for Industry-I sector held during 14th –15th March, 2024, wherein the Committee, after detailed deliberations, recommended the proposal. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The Unit configuration and capacity after splitting are given at Annexure I. Project Information, EC Responsibility and Environmental Liability Matrix are given at **Annexure II**.

6. The EAC, in its meeting held during 14th to 15th March, 2024, inter-alia, deliberated the following:

i. M/s JSW Steel Limited (JSWSL) was accorded environmental clearance vide lr.no. EC21A008KA165146 dated 29/11/2021 for enhancement of production capacity of its Integrated Steel Plant from 16 MTPA to 18 MTPA located in Toranagallu Village Ballari District, Karnataka.

ii. The PP has not implemented some of the facilities as envisaged in the EC dated 29.11.2021 as detailed at relevant para above. Consent to Establish for said expansion project was accorded by KSPCB vide Consent order no CTE-332802 dated 17/08/2022.

iii. The instant proposal is for seeking splitting of existing EC of JSW Steel Ltd, Vijayanagar works dated 29.11.2021 between JSW Steel Limited (JSWSL), JSW Vijayanagar Metallica Limited (JVML) and JSW Cement Limited (JSWCL), with a final configuration of 13 MTPA Steel, 1490 MW of CPP and 0.2 MTPA Slag cement unit to remain with JSWSL, Transfer of 5 MTPA Steel to JVML and Transfer of 2 MTPA Slag Grinding Unit to JSWCL (in addition to existing 4 MTPA Slag cement plant) at Vijayanagar works, Toranagallu, Ballari, Karnataka due to restructuring of partnership arrangements as detailed in the relevant para above.

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

v. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the

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

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

vii. The EAC also took into consideration the site visit undertaken by sub-committee of EAC (Industry-1) from 30.11.2023 to 02.12.2023 and the observations and recommendations made by the sub-committee in its report.

viii. The Committee also took into consideration the issues addressed by the project proponent based on the queries raised by EAC during the appraisal of previous applications which were returned in present form due to technical shortcomings and appraised the instant application accordingly.

ix. The EAC deliberated on the Certified Compliance Report (CCR) issued by IRO, MoEF&CC vide letter dated 16.11.2022 based on the site inspection carried out and noted that PP has not implemented the complete facilities as envisaged in the expansion project. The EAC also deliberated on the observations of IRO pertaining to partial/non-compliance of some of the EC conditions followed by the ATR submitted by the PP and the updated compliance along with the action plan and timelines for the CCR report submitted to EAC (Industry-1) during the 56th EAC meeting and is of the opinion that PP shall strictly comply with the conditions as per the action plan and within the timeframe as committed. No more extension of time period with respect to the non-complied specific conditions will be granted further.

x. The EAC noted that PP has submitted the requisite documents required for appraising the proposal for splitting of EC under the provisions of EIA Notification, 2006 and found that the proposal is in order.

xi. The EAC deliberated on the detailed addendum to EIA/EMP Report submitted by the PP including the salient features that will arise out of splitting arrangement such as project information matrix, raw material requirement, environment management plan, waste management, EC condition compliance matrix, environmental liability matrix etc. among the three entities along with the Environmental Appraisal Report submitted by the transferee entities i.e. JVML and JSWCL and found it satisfactory.

xii. The EAC deliberated on the comparative statement pertaining to pollution load assessment after the proposed change post splitting of EC and found it satisfactory.

xiii. The EAC deliberated on the budget spent to address the PH issues / socio-economic development presented before the EAC and found it satisfactory.

xiv. The EAC deliberated on the EC condition responsibility Matrix of JSWSL, JVML and JSWCL with respect to the EC conditions after splitting of existing EC and an undertaking submitted by M/s. JSWSL to comply with all the conditions stipulated in EC dated 29.11.2021, being a principal lessor and found it satisfactory.

xv. The EAC deliberated on the note submitted by PP outlining the operational status of the airport including the chronology of the permissions obtained and is of the view that PP shall ensure to operate the facility only after valid and requisite permissions required to operate the same.

xvi. The EAC opined that install the requisite number of CAAQMS linked with CPCB server at designated places as discussed during the meeting.

xvii. The EAC noted that JSWSL complex covers an area of 3234.2 hectares of land which is also mentioned in the EC dated 29.11.2021. However, considering several subsidiary companies operating within the complex for which PP has provided an area statement for all such subsidiaries, including a list and associated permissions, the EAC opined that the area of JSWSL shall be updated excluding all such subsidiaries and post splitting balance area and the EC shall be accorded accordingly with updated area details. Also, the EAC advised PP that they need to ensure that all such subsidiaries 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.

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

xix. The EAC opined that as committed, PP shall comply with the condition for development and maintenance of greenbelt in at least 33% area of the JSW complex as principal lessor.

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

xxi. The EAC also deliberated on the ADS reply of the project proponent and found it satisfactory.

xxii. The EAC noted that the Integrated Site Specific Wildlife Conservation plan (ISSWLCP) has been prepared for the whole JSW complex by JSW Steel Limited and this shall be applicable to all the Auxiliary companies. In this regard, the EAC is of the view that PP shall strictly comply with the directions of State Forest Department, obtain approval and implement the conservation plan as per the timelines.

xxiii. The EAC is of the opinion that all the three entities i.e. JSWSL, JVML and JSWCL shall undertake Village Adoption programme as committed.

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

7. The EAC, in its 56th meeting of Expert Appraisal Committee (Industry-1 Sector) held during 14th–15th March, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the instant proposal for splitting of existing EC of JSW Steel Ltd, Vijayanagar works dated 29.11.2021 between JSW Steel Limited (JSWSL), JSW Vijayanagar Metallics Limited (JVML) and JSW Cement Limited (JSWCL), as per the details mentioned in the summary of the proposal above, subject to additional specific conditions at Annexure III.

8. The MoEF&CC 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 Sector) hereby decided to splitting of existing EC of JSW Steel Ltd, Vijayanagar works dated 29.11.2021 between JSW Steel Limited (JSWSL), JSW Vijayanagar Metallics Limited (JVML) and JSW Cement Limited (JSWCL), as per the details mentioned in the summary of the proposal above under the provisions of EIA Notification, 2006 subject to specific conditions and general conditions at **Annexure III**.

9. 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.

10. 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.

11. 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.

12. 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.

13. This issues with approval of the competent authority.

(Dinesh Runiwal)
Scientist 'F'/ Director
Tel: 011-20819289

Copy To

1. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore -560 001.
2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
3. The Member Secretary, Karnataka State Pollution Control Board, No. 25, 6– 9th Floor, Public Utility Building, M.G. Road, Bangalore – 560 001.
4. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 560034
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
6. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
7. The Chief Wildlife Warden, Govt. of Karnataka, Aranya Bhawan,18th Cross, Malleswaram, Bangalore-560003
8. District Collector, Bellary, District, Karnataka.
9. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
10. M/s JVML - for information please.
11. M/s JSWCL - for information please.
12. Guard File/Monitoring File/Website/Record File/Parivesh Portal.

(Dinesh Runiwal)
Scientist 'F'/ Director

Annexure 1

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

1. Additional specific conditions

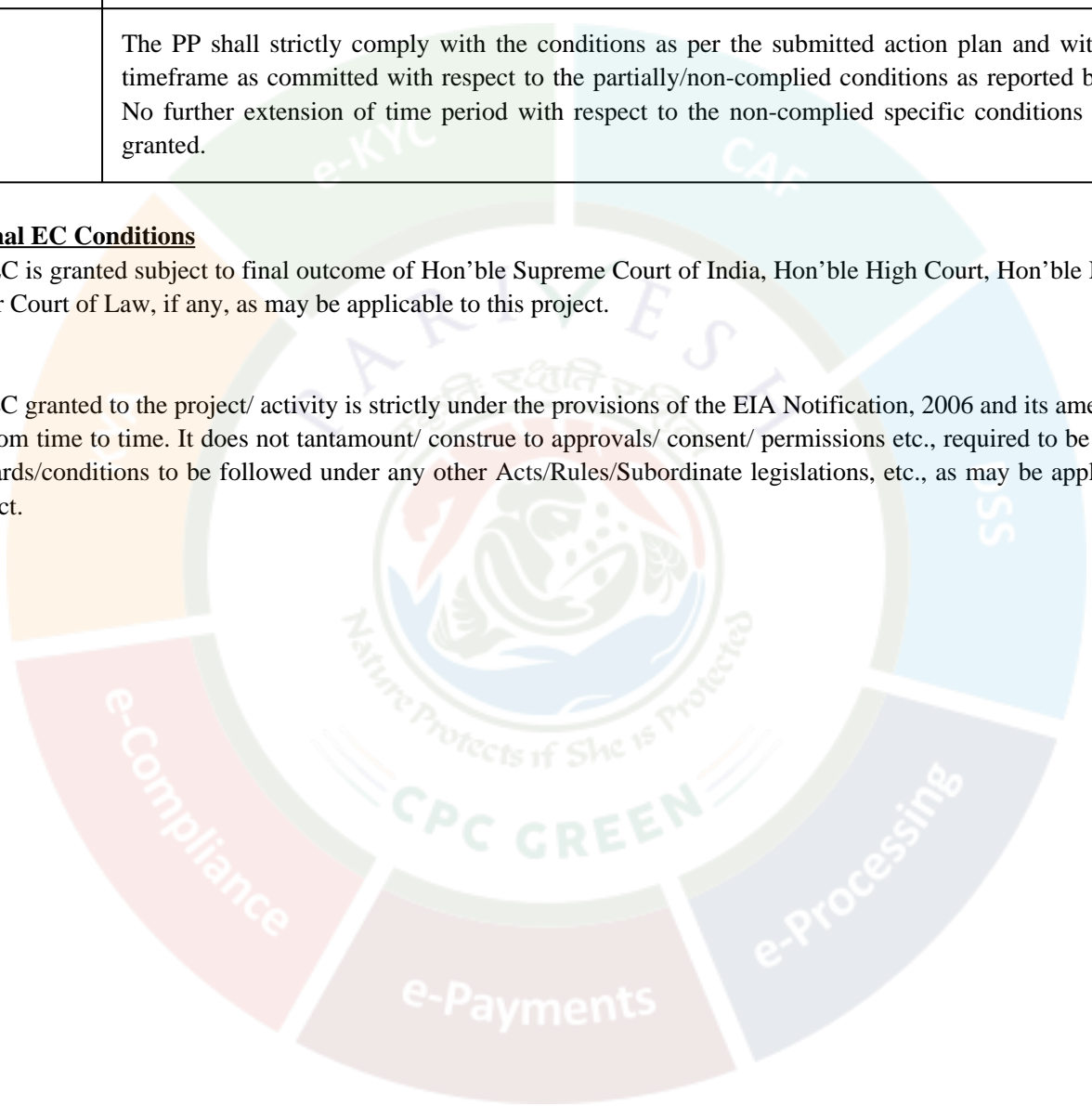
S. No	EC Conditions
1.1	All the other terms and conditions stipulated in environmental clearance vide letter no vide lr.no. EC21A008KA165146 dated 29/11/2021 shall remain unchanged.
1.2	The PP shall widely publicize the executive summary of the EC split proposal and publish the split ECs in local newspapers.
1.3	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.
1.4	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.
1.5	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.

S. No	EC Conditions
1.6	The PP shall install the requisite number of CAAQMS linked with CPCB server at designated places.
1.7	The PP shall ensure to operate the airport facility only after valid and requisite permissions required to operate the same.
1.8	M/s. JSWSL, being principal lessor shall be held responsible for compliance of all the conditions stipulated in EC dated 29.11.2021.
1.9	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.

Additional EC Conditions

1. This EC is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

2. This 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.



Splitting of existing EC of JSW Steel Ltd, Vijayanagar works dated 29.11.2021 between JSW Steel Limited (JSWSL), JSW Vijayanagar Metalics Limited (JVML) and JSW Cement Limited (JSWCL), Unit configuration and capacity as detailed below

Sl. No.	Facility	Units	As per Existing EC		After Present Proposal of Splitting of EC						Remarks
			Unit Cap	Total	Units under JSWSL		Transfer to JVML		Transfer to JSWCL		
					Unit Cap.	Total	Unit Cap.	Total	Unit Cap.	Total	
1.	Ore beneficiation Plant	OBP-1	(OBP-1 will be relocated to OBP-2)	19.5 MTPA	-	19.5 MTPA	-	-	-	-	No change
		OBP-2	1X 2.5 MTPA 1X 5.0 MTPA 1 X 7.5 MTPA 1 X 4.5 MTPA		1X 2.5 MTPA 1X 5.0 MTPA 1 X 7.5 MTPA 1 X 4.5 MTPA		-	-	-	-	
2.	Sinter Plants	SP1	2.3 MTPA	14.95 MTPA	2.3 MTPA	12.65 MTPA	-	2.3 MTPA	-	-	SP5 transfer to JVML
		SP2	2.3 MTPA		2.3 MTPA		-		-		
		SP3	5.75 MTPA		5.75 MTPA		-		-		
		SP4	2.3 MTPA		2.3 MTPA		-		-		
		SP5	2.3 MTPA		-		2.3 MTPA	-	-		
3.	Pellet Plants	PP1	5 MTPA	16.8 MTPA	5 MTPA	16.8 MTPA	-	-	-	-	No change
		PP2	5 MTPA		5 MTPA		-		-		
		PP3	6.8 MTPA		6.8 MTPA		-		-		
4.	Coke Ovens	CO3	1.5 MTPA	8 MTPA	1.5 MTPA	8 MTPA	-	-	-	-	No change
		CO4	2 MTPA		2 MTPA		-		-		
		CO5	3 MTPA		3 MTPA		-		-		
		CO6	1.5 MTPA		1.5 MTPA		-		-		
5.	Hot Metal-COREX	COREX 1	0.8 MTPA	1.6 MTPA	0.8 MTPA	1.6 MTPA	-	-	-	-	No change
		COREX 2	0.8 MTPA		0.8 MTPA		-		-		
6.	Hot Metal-Blast Furnace	BF1	2.5 MTPA	16.57 MTPA	2.5 MTPA	12.07 MTPA	-	4.5 MTPA	-	-	4.5 MTPA BF5 transfer to JVML
		BF2	2.17 MTPA		2.17 MTPA		-		-		
		BF3	4.4 MTPA		4.4 MTPA		-		-		
		BF4	3 MTPA		3 MTPA		-		-		
		BF5	4.5 MTPA		-		4.5 MTPA		-	-	
7.	Pig Caster (MGP)	-	1 x 1200 TPD	17000 TPD	1 x 1200 TPD	12000 TPD	-	5000	-	-	5000 TPD MGP transfer to JVML
		-	3 x 3600 TPD		3 x 3600 TPD		-		-		

Sl. No.	Facility	Units	As per Existing EC		After Present Proposal of Splitting of EC						Remarks
			Unit Cap	Total	Units under JSWSL		Transfer to JVML		Transfer to JSWCL		
					Unit Cap.	Total	Unit Cap.	Total	Unit Cap.	Total	
8.	Crude steel	SMS1	3.8 MTPA	18 MTPA	3.8 MTPA	13.2 MTPA	-	4.8 MTPA	-	-	SMS4 of 4.8 MTPA transfer to JVML
		SMS2	6.4 MTPA		6.4 MTPA		-		-		
		SMS3	1.5 MTPA EAF 1.5 MTPA ZPF		1.5 MTPA EAF 1.5 MTPA ZPF		-		-		
		SMS4	4.8 MTPA BOF		-		4.8 MTPA BOF		-		
9.	Lime Kilns	LCP1	4X300 TPD	7200 TPD	4X300 TPD	5400 TPD	-	1800 TPD	-	-	Transfer of 3X600 TPD Lime kilns to JVML
		LCP2	4X300 TPD + 3X600 TPD		4X300 TPD + 3X600 TPD		-		-		
		LCP3	2X600 TPD		2X600 TPD		-		-		
		LCP4	3X600 TPD		-		3X600 TPD		-		
10.	Casters	Slab Caster 1	3.2 MTPA	20.7 MTPA	3.2 MTPA	15.7 MTPA	-	5.0 MTPA	-	-	5.0 MTPA Slab Caster 4 transfer to JVML
		Slab Caster 2	6.4 MTPA		6.4 MTPA		-		-		
		Slab Caster 3	1.6 MTPA		1.6 MTPA		-		-		
		Slab Caster 4	5.0 MTPA		-		5.0 MTPA		-		
		Billet Caster 1	1.5 MTPA		1.5 MTPA		-		-		
		Billet Caster 2	3.0 MTPA		3.0 MTPA		-		-		
11.	Hot Strip Mills	HSM1	4.0 MTPA	14.2 MTPA	4.0 MTPA	9.2 MTPA	-	5.0 MTPA	-	-	5.0 MTPA HSM3 transfer to JVML
		HSM2	5.2 MTPA		5.2 MTPA		-		-		
		HSM3	5.0 MTPA		-		5.0 MTPA		-		
12.	Pipe Mill	-	1x0.4 MTPA	0.4 MTPA	1x0.4 MTPA	0.4 MTPA	-	-	-	-	No change
13.	Wire Rod Mill	WRM1	0.6 MTPA	1.8 MTPA	0.6 MTPA	1.8 MTPA	-	-	-	-	No change
		WRM2	1.2 MTPA		1.2 MTPA		-		-		
14.	Rebar & Section Mills	BRM1	1.0 MTPA	2.2 MTPA	1.0 MTPA	2.2 MTPA	-	-	-	-	No change
		BRM2	1.2 MTPA		1.2 MTPA		-		-		
15.		CRM1	1.8 MTPA	6.4 MTPA	1.8 MTPA	6.4 MTPA	-	-	-	-	No change

Sl. No.	Facility	Units	As per Existing EC		After Present Proposal of Splitting of EC						Remarks
			Unit Cap	Total	Units under JSWSL		Transfer to JVML		Transfer to JSWCL		
					Unit Cap.	Total	Unit Cap.	Total	Unit Cap.	Total	
	Cold Rolling Mills	CRM2	2.3 MTPA		2.3 MTPA		-		-	-	
		CRM3	2.3 MTPA		2.3 MTPA		-		-	-	
16.	Galvanizing Lines	CGL1	4X0.25 MTPA	1.9 MTPA	4X0.25 MTPA	1.9 MTPA	-	-	-	-	No change
		CGL2	2X0.45 MTPA		2X0.45 MTPA		-	-	-	-	
17.	Colour Coating Line	-	0.5 MTPA	0.5 MTPA	0.5 MTPA	0.5 MTPA	-	-	-	-	No change
18.	Captive Power Plants	CPP1 – Gas based	100 MW	1490 MW	100 MW	1490 MW	-	-	-	-	No change
		CPP2 – Gas based	130 MW		130 MW		-	-	-	-	
		CPP3 – Coal + Gas	300 MW		300 MW		-	-	-	-	
		CPP4 – Coal + Gas	300 MW		300 MW		-	-	-	-	
		CPP5- Coal	660 MW		660 MW		-	-	-	-	
19.	Incinerator	-	1000 kg/h	1000 kg/h	1000 kg/h	1000 kg/h	-	-	-	-	No change
20.	Slag Grinding and mixing unit	CP1	0.2 MTPA	2.2 MTPA	0.2 MTPA	0.2 MTPA	-	-	-	2.0 MTPA	2.0 MTPA CP2 transfer to JSWCL
		CP2	2.0 MTPA		-		-	2.0 MTPA			
21.	Oxygen Plant	-	1X2500 TPD 4X1800 TPD 1X900 TPD 1X2060 TPD 1X2200 TPD	14860 TPD	1X2500 TPD 4X1800 TPD 1X900 TPD 1X2060 TPD 1X2200 TPD	14860 TPD	-	-	-	-	No change

Project Information, EC Responsibility and Environmental Liability Matrix

I. Project Information Matrix including raw material, Environment Management Plan and waste generation

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
1	Ore beneficiation Plant – 19.5 MTPA (Product) OBP1 - 1X2.5 MTPA (To be relocated to OBP2) OBP2 - 1X5.0 MTPA + 1X7.5 MTPA + 1X4.5 MTPA	Ore beneficiation Plant – 19.5 MTPA (Product) OBP1 - 1X2.5 MTPA (To be relocated to OBP2) OBP2 - 1X5.0 MTPA + 1X7.5 MTPA + 1X4.5 MTPA	Nil	Nil
2	Sinter Plants – 14.95 MTPA (Total) SP1 - 2.3 MTPA SP2 - 2.3 MTPA SP3 - 5.75 MTPA SP4 - 2.3 MTPA SP5 - 2.3 MTPA SP-5 Co-ordinates: Latitudes (North) – From 15°10'46.77" N- 15°10'56.82"N Longitudes (East) – From 76°37'55.13"E - 76°38'11.27"E	Sinter Plants – 12.65 MTPA (Total) SP1 - 2.3 MTPA SP2 - 2.3 MTPA SP3 - 5.75 MTPA SP4 - 2.3 MTPA	Sinter Plants – 2.3 MTPA (Total) SP5 - 2.3 MTPA (After relocation) SP-5 Co-ordinates: Latitudes (North) – From 15°10'18" N- 15°10'28"N Longitudes (East) – From 76°41'28"E - 76°41'45"E	Nil
3	Pellet Plants – 16.8 MTPA (Total) PP1 – 5 MTPA PP2 – 5 MTPA PP3 – 6.8 MTPA	Pellet Plants – 16.8 MTPA (Total) PP1 – 5 MTPA PP2 – 5 MTPA PP3 – 6.8 MTPA	Nil	Nil
4	Coke Ovens – 8 MTPA (Total) CO3 – 1.5 MTPA CO4 – 2 MTPA	Coke Ovens – 8 MTPA (Total) CO3 – 1.5 MTPA	Nil	Nil

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
	CO5 – 3 MTPA CO6 – 1.5 MTPA	CO4 – 2 MTPA CO5 – 3 MTPA CO6 – 1.5 MTPA		
5	Hot Metal COREX – 1.6 MTPA (Total) COREX1 – 0.8 MTPA COREX2 – 0.8 MTPA	Hot Metal COREX – 1.6 MTPA (Total) COREX1 – 0.8 MTPA COREX2 – 0.8 MTPA	Nil	Nil
6	Hot Metal- Blast Furnace – 16.57 MTPA (Total) BF1 - 2.5 MTPA BF2 - 2.17 MTPA BF3 - 4.4 MTPA BF4 - 3 MTPA BF5 - 4.5 MTPA	Hot Metal- Blast Furnace – 12.07 MTPA (Total) BF1 - 2.5 MTPA BF2 - 2.17 MTPA BF3 - 4.4 MTPA BF4 - 3 MTPA	Hot Metal- Blast Furnace – 4.5 MTPA (Total) BF5 - 4.5 MTPA	Nil
7	Pig Casters + Metal Granulation Plant (MGP) – 17000 TPD (Total) Pig Caster - 1 x 1200 TPD + 3 x 3600 TPD MGP - 1 x 5000 TPD	Pig Casters + Metal Granulation Plant (MGP) – 12000 TPD (Total) Pig Caster - 1 x 1200 TPD + 2 x 3600 TPD Metal Granulation Plant (MGP) – 3600 TPD	Metal Granulation Plant (MGP) – 5000 TPD (Total) MGP - 1 x 5000 TPD	Nil
8	Steel Melting Shops (SMS) – 18 MTPA (Total) SMS1 - 3.8 MTPA BOF SMS2 - 6.4 MTPA BOF SMS3 - 1.5 MTPA EAF + 1.5 MTPA ZPF SMS4 - 4.8 MTPA BOF	Steel Melting Shops (SMS) – 13.2 MTPA (Total) SMS1 - 3.8 MTPA BOF SMS2 - 6.4 MTPA BOF SMS3 - 1.5 MTPA EAF + 1.5 MTPA ZPF	Steel Melting Shops (SMS) – 4.8 MTPA (Total) SMS4 - 4.8 MTPA BOF	Nil
9	Lime Kilns – 7200 TPD (Total) LCP1 - 4X300 TPD LCP2 - 4X300 TPD + 3X600 TPD LCP3 - 2X600 TPD	Lime Kilns – 5400 TPD (Total) LCP1 - 4X300 TPD LCP2 - 4X300 TPD + 3X600 TPD LCP3 - 2X600 TPD	Lime Kilns – 1800 TPD (Total) LCP4 - 3X600 TPD	Nil

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
	LCP4 - 3X600 TPD			
10	Continuous Casters – 20.7 MTPA (Total) Slab Caster 1 - 3.2 MTPA Slab Caster 2 - 6.4 MTPA Slab Caster 3 - 1.6 MTPA Slab Caster 4 - 5.0 MTPA Billet Caster 1 - 1.5 MTPA Billet Caster 2 - 3.0 MTPA	Continuous Casters – 15.7 MTPA (Total) Slab Caster 1 - 3.2 MTPA Slab Caster 2 - 6.4 MTPA Slab Caster 3 - 1.6 MTPA Billet Caster 1 - 1.5 MTPA Billet Caster 2 - 3.0 MTPA	Continuous Casters – 5.0 MTPA (Total) Slab Caster 4 - 5.0 MTPA	Nil
11	Hot Strip Mills – 14.2 MTPA (Total) HSM1 - 4.0 MTPA HSM2 - 5.2 MTPA HSM3 - 5.0 MTPA	Hot Strip Mills – 9.2 MTPA (Total) HSM1 - 4.0 MTPA HSM2 - 5.2 MTPA	Hot Strip Mills – 5.0 MTPA (Total) HSM3 - 5.0 MTPA	Nil
12	Pipe Mill - 1 X 0.4 MTPA	Pipe Mill - 1 X 0.4 MTPA	Nil	Nil
13	Wire Rod Mill – 1.8 MTPA (Total) WRM1 - 0.6 MTPA WRM2 - 1.2 MTPA	Wire Rod Mill – 1.8 MTPA (Total) WRM1 - 0.6 MTPA WRM2 - 1.2 MTPA	Nil	Nil
14	Rebar & Section Mills – 2.2 MTPA (Total) BRM1 - 1.0 MTPA BRM2 - 1.2 MTPA	Rebar & Section Mills – 2.2 MTPA (Total) BRM1 - 1.0 MTPA BRM2 - 1.2 MTPA	Nil	Nil
15	Cold Rolling Mills – 6.4 MTPA (Total) CRM1 - 1.8 MTPA CRM2 - 2.3 MTPA CRM3 - 2.3 MTPA	Cold Rolling Mills – 6.4 MTPA (Total) CRM1 - 1.8 MTPA CRM2 - 2.3 MTPA CRM3 - 2.3 MTPA	Nil	Nil
16	Galvanizing Lines – 1.9 MTPA (Total) CGL1 - 4X0.25 MTPA CGL2 - 2X0.45 MTPA	Galvanizing Lines – 1.9 MTPA (Total) CGL1 - 4X0.25 MTPA CGL2 - 2X0.45 MTPA	Nil	Nil
17	Colour Coating Line – 0.5 MTPA	Colour Coating Line – 0.5 MTPA	Nil	Nil

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
18	Captive Power Plants – 1490 MW (Total) CPP1 (Gas based) - 100 MW CPP2 (Gas based) - 130 MW CPP3 (Coal + Gas based) - 300 MW CPP4 (Coal + Gas based) - 300 MW CPP5 (Coal based) - 660 MW	Captive Power Plants – 1490 MW (Total) CPP1 (Gas based) - 100 MW CPP2 (Gas based) - 130 MW CPP3 (Coal + Gas based) - 300 MW CPP4 (Coal + Gas based) - 300 MW CPP5 (Coal based) - 660 MW	Nil	Nil
19	Incinerator – 1000 kg/hr	Incinerator – 1000 kg/hr	Nil	Nil
20	Slag Grinding and mixing unit – 2.2 MTPA (Total) CP1 - 1X0.2 MTPA CP2 - 1X2.0 MTPA	Slag Grinding and mixing unit – 0.2 MTPA (Total) CP1 - 1X0.2 MTPA	Nil	Slag Grinding and mixing unit – 6 MTPA (Total) Existing - 2X2.0 MTPA CP2 - 1X2.0 MTPA (Expansion of Existing Cement Plant of JSW Cement from 4 MTPA to 6 MTPA)
21	Oxygen Plant – 14860 TPD (Total) 1X2500 TPD 4X1800 TPD 1X900 TPD 1X2060 TPD 1X2200 TPD	Oxygen Plant – 14860 TPD (Total) 1X2500 TPD 4X1800 TPD 1X900 TPD 1X2060 TPD 1X2200 TPD	Nil	Nil
22	Plant Capacity Crude Steel - 18 MTPA Captive Power - 1490 MW Slag Cement - 2.2 MTPA	Plant Capacity Crude Steel - 13 MTPA Captive Power - 1490 MW Slag Cement - 0.2 MTPA	Plant Capacity Crude Steel - 5.0 MTPA	Plant Capacity Slag Cement - 6 MTPA Slag Cement Plant (4.0 MTPA Existing +2.0 MTPA after EC Splitting)
23	Final Products - <ul style="list-style-type: none"> • HR Coils • CR Coils • MG/Slabs • Wire Rods • Rebars 	Final Products - <ul style="list-style-type: none"> • HR Coils • CR Coils • MG/Slabs • Wire Rods • Rebars 	Final Products - <ul style="list-style-type: none"> • HR Coils • MG • Slabs 	Final Products - <ul style="list-style-type: none"> • Slag based cement products

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
	<ul style="list-style-type: none"> Beams Billets Slabs Slag Cement 	<ul style="list-style-type: none"> Beams Billets Slabs Slag Cement 		
24	<p>Land Details</p> <ul style="list-style-type: none"> Total Area - 3234.2 ha Greenbelt Area - 1068 ha <p>Note: The total area includes 60.7 ha which is sub leased to JSW CEMENT LIMITED and 205.78 ha which is sub leased to other JSW group companies located inside the complex.</p>	<p>Land Details</p> <ul style="list-style-type: none"> Total Area - 2630.6 ha Greenbelt Area - 870 ha <p>Note: The revised total area is excluding the following</p> <p>(i) 60.7 ha which is sub leased to JSW CEMENT LIMITED.</p> <p>(ii) 205.78 ha which is sub leased to other JSW group companies located inside the complex.</p> <p>(iii) 337.1 ha proposed to sub lease to JSW VIJAYANAGAR METALLICS LIMITED.</p>	<p>Land Details</p> <ul style="list-style-type: none"> Total Area - 337.1 ha Greenbelt Area - 111 ha 	<p>Land Details</p> <ul style="list-style-type: none"> Total Area - 60.7 ha (Existing) Greenbelt Area - 20 ha
	<p>Co-ordinates</p> <p>Latitudes (North) – From 15°9'21.31"N- 15°12'7.68"N</p> <p>Longitudes (East) – From 76°37'4.75" - 76°44'1.93"E</p>	<p>Co-ordinates</p> <p>Latitudes (North) – From 15°9'21.31"N- 15°12'7.68"N</p> <p>Longitudes (East) – From 76°37'4.75" - 76°44'1.93"E</p>	<p>Co-ordinates</p> <p>Latitudes (North) – From 15°10'32.84"N - 15°11'14.70"N</p> <p>Longitudes (East) – From 76°41'19.91"E - 76°42'19.85"E</p>	<p>Co-ordinates</p> <p>Latitudes (North) – From 15°10'17.43"N - 15°11'3.07"N</p> <p>Longitudes (East) – From 76°41'40.53"E - 76°42'11.94"E</p>
25	<p>Raw Material</p> <ul style="list-style-type: none"> Iron ore fines - 2,43,87,500 Iron ore lumps - 14,10,000 Coking coal - 1,08,00,000 COREX coal - 11,20,000 PCI coal - 33,14,000 Anthracite coal - 4,30,000 Limestone LCP - 45,17,623 Limestone Agg - 958236 	<p>Raw Material</p> <ul style="list-style-type: none"> 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 	<p>Raw Material</p> <ul style="list-style-type: none"> Iron ore lumps - 3,82,500 PCI coal - 6,75,000 Lime/dolo stone LCP - 14,25,019 Dolomite Agg - 2,58,492 Ind Dolomite - 1,01,080 Ind. quartz - 22,357 	<p>Raw Material</p> <ul style="list-style-type: none"> Slag - 49,62,889 Dry Fly Ash - 80,000 Clinker - 11,37,004 Gypsum - 69,752 Coal - 62,000

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
	<ul style="list-style-type: none"> Dolomite Agg - 7,28,347 Ind. limestone - 34336 Ind. dolomite - 11,15,426 Dolomite LCP - 1877987 Ind. quartz - 7,46,953 Bentonite - 1,00,000 Thermal Coal - 47,50,000 	<ul style="list-style-type: none"> Dolomite Agg - 4,69,855 Ind. limestone - 34,336 Ind. dolomite - 10,14,346 Dolomite LCP - 15,13,081 Ind. quartz - 7,24,596 Bentonite - 1,00,000 Thermal Coal - 47,50,000 	<ul style="list-style-type: none"> Beneficiated Iron ore fines - 15,27,715 Pellet - 51,67,500 Coke - 15,75,000 Coke breeze - 1,27,061 Purchased scrap - 3,00,000 Purchased Slabs - 2,66,327 	
25(a)	Raw Material Interdependence	Raw Material Interdependence JSWSL Procures Raw material for both JSWSL and JVML, for making Steel. <ul style="list-style-type: none"> 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. 	Raw Material Interdependence <ul style="list-style-type: none"> The Materials required for preparation of Steel is sourced from JSWSL. JVML has resource sharing agreement with JSWSL 	Raw Material Interdependence <ul style="list-style-type: none"> JSWCL procures the raw material like Clinker & Gypsum from outside for Cement making. The BF Granulated slag and fine coal is sourced from JSWSL and transportation is through wagons/Bulkers SWCL has resource sharing agreement
26	Water Requirement : Total -3,01,000 m ³ /day ISP - 144,465 m ³ /day	Water Requirement : Total - 2,78,076 m ³ /day ISP - 1,21,541 m ³ /day	Water Requirement : JVML- 22,824 m ³ /day	Water Requirement : JSWCL-100 m ³ /day
27	Power Requirement : 1434 MW	Power Requirement : 1186 MW	Power Requirement : 235 MW	Power Requirement : 13 MW (Additional)
28	Fuel Requirement <ul style="list-style-type: none"> Coke Oven gas (COG) - 347 K Nm³/hr BF Gas (BFG) - 2740 K Nm³/hr 	Fuel Requirement <ul style="list-style-type: none"> Coke Oven gas (COG) - 279 K Nm³/hr 	Fuel Requirement <ul style="list-style-type: none"> Coke Oven gas (COG) - 68 K Nm³/hr 	Nil

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
	<ul style="list-style-type: none"> COREX Gas – 315 K Nm³/hr DRI Gas – 200 K Nm³/hr LD Gas – 184 K Nm³/hr 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> BF Gas (BFG) – 826 K Nm³/hr LD Gas – 56 K Nm³/hr 	
29	Total Pollutant Load a) Stack emission <ul style="list-style-type: none"> PM – 774.5 g/s PM2.5 – 240.6 g/s SO₂ – 1912.8 g/s NO_x – 1689.8 g/s b) Fugitive Emission PM10 – 1.787 g/s PM2.5 – 0.7 g/s b) Transport PM10 – 1 g/s	Pollutant Load a) Stack emission <ul style="list-style-type: none"> PM – 676.3 g/s PM2.5 – 181.3 g/s SO₂ – 1817.4 g/s NO_x – 1610.5 g/s b) Fugitive Emission PM10 – 1.787 g/s PM2.5 – 0.7 g/s b) Transport PM10 – 1 g/s	Pollutant Load a) Stack emission <ul style="list-style-type: none"> PM – 96.6 g/s PM2.5 – 58.6 g/s SO₂ – 95.5 g/s NO_x – 79.3 g/s b) Fugitive Emission All the raw materials are being handled by JSWSL b) Transport All the raw materials are being handled by JSWSL	Pollutant Load a) Stack emission <ul style="list-style-type: none"> PM – 6.5 (Existing) g/s + 1.6 (New) g/s b) Fugitive Emission Covered shed are used b) Transport Insignificant
29(a)	Air pollution control Devices <ul style="list-style-type: none"> Bag filter-78 ESP -12 Scrubber-31 Dispersion stacks- 37 	Air pollution control Devices <ul style="list-style-type: none"> Bag filter-69 ESP -11 Scrubber-30 Dispersion stacks-33 	Air pollution control Devices <ul style="list-style-type: none"> Bag filter-8 ESP -1 Scrubber-1 Dispersion stacks-4 	Air pollution control Devices <ul style="list-style-type: none"> Bag filter-1 ESP -0 Scrubber-0 Dispersion stacks-0
Environmental Management Plan				
30	Air Pollution Control Measures <ul style="list-style-type: none"> Design limit for dust emission from RMHS bag filters < 30 mg/nm³ 	Air Pollution Control Measures <ul style="list-style-type: none"> Design limit for dust emission from bag filters < 30 mg/nm³ 	Air Pollution Control Measures <ul style="list-style-type: none"> Design limit for dust emission from 	Air Pollution Control Measures <ul style="list-style-type: none"> Bag Filter based Dust Extraction systems

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	<p>Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)</p> <ul style="list-style-type: none"> Additional high-performance bag filters in all sinter plants, with emission limit of < 10 mg/nm³ High efficiency ESPs along with bag filters in pellet plant to limit dust to < 10 mg/nm³ Charging emission control by SOPRECO Emission reduction via MEROS in Sinter Plant Dry fogging and bag filter based Dust Extraction system in material handling Charging and pushing Emission control in coke ovens Low NO_x stage combustion burners 	<p>Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity</p> <ul style="list-style-type: none"> Additional high-performance bag filters in all sinter plants, with emission limit of < 10 mg/nm³ High efficiency ESPs along with bag filters in pellet plant to limit dust to < 10 mg/nm³ Charging emission control by SOPRECO Emission reduction via MEROS in Sinter Plant Dry fogging and bag filter based Dust Extraction system in material handling Charging and pushing Emission control in coke ovens Low NO_x stage combustion burners in under-firing Low NO_x stage combustion burners in HSM 	<p>Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity</p> <ul style="list-style-type: none"> bag filters < 30 mg/nm³ Emission reduction via high performance ESP in Sinter Plant. PM emission <10mg/Nm³ Dry fogging and bag filter based Dust Extraction system in material handling Waste gas recycling for energy efficiency improvement. Dog house for primary extraction and Secondary dedusting system with bag filters Low NO_x stage combustion burners in HSM 	<p>Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity</p>
31	<p>Noise Pollution Control Measures</p> <ul style="list-style-type: none"> Plugging leakages in high-pressure gas/air pipelines. Reducing vibration of high speed rotating machines by regular monitoring of vibration and taking necessary steps. Design of absorber system for the shift office and pulpit operator's cabin. Noise absorber systems in pump houses. 	<p>Noise Pollution Control Measures</p> <ul style="list-style-type: none"> Plugging leakages in high-pressure gas/air pipelines. Reducing vibration of high speed rotating machines by regular monitoring of vibration and taking necessary steps. Design of absorber system for the shift office and pulpit operator's cabin. Noise absorber systems in pump houses. 	<p>Noise Pollution Control Measures</p> <ul style="list-style-type: none"> Plugging leakages in high-pressure gas/air pipelines. Reducing vibration of high speed rotating machines by regular monitoring of vibration and taking necessary steps. 	<p>Noise Pollution Control Measures</p> <ul style="list-style-type: none"> Reducing vibration of high speed rotating machines by regular monitoring of vibration and taking necessary steps. Noise level at 1m from equipment will be limited to 85 dB (A). The fans and ductwork will be designed for minimum vibration.

SN	JSWSL at 18 MTPA Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	JSWSL at 13 MTPA Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	JVML at 5 MTPA Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	JSWCL Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
	<ul style="list-style-type: none"> • Noise level at 1m from equipment will be limited to 85 dB (A). • The fans and ductwork will be designed for minimum vibration. • All the equipment in different units will be designed/operated in such a way that the noise level shall not exceed 85 dB (A). • Periodical monitoring of work zone noise and outside plant premises. • Un-manned high noise zone will be marked as "High Noise Zone". • In shops where measures are not feasible, attempts shall be made to provide operators with sound-proof enclosure to operate the system. • Workers exposed to noise level will be provided with protection devices like earmuffs and will be advised to use them regularly, while at work. • Workers exposed to noisy work place shall be provided with rotational duties. • All workers will be regularly checked medically for any noise related health problem and if detected, they will be provided with alternative duty. 	<ul style="list-style-type: none"> • Noise level at 1m from equipment will be limited to 85 dB (A). • The fans and ductwork will be designed for minimum vibration. • All the equipment in different units will be designed/operated in such a way that the noise level shall not exceed 85 dB (A). • Periodical monitoring of work zone noise and outside plant premises. • Un-manned high noise zone will be marked as "High Noise Zone". • In shops where measures are not feasible, attempts shall be made to provide operators with sound-proof enclosure to operate the system. • Workers exposed to noise level will be provided with protection devices like earmuffs and will be advised to use them regularly, while at work. • Workers exposed to noisy work place shall be provided with rotational duties. • All workers will be regularly checked medically for any noise related health problem and if detected, they will be provided with alternative duty. 	<ul style="list-style-type: none"> • Design of absorber system for the shift office and pulpit operator's cabin. • Noise absorber systems in pump houses. • Noise level at 1m from equipment will be limited to 85 dB (A). • The fans and ductwork will be designed for minimum vibration. • All the equipment in different units will be designed/operated in such a way that the noise level shall not exceed 85 dB (A). • Periodical monitoring of work zone noise and outside plant premises. • Un-manned high noise zone will be marked as "High Noise Zone". • In shops where measures are not feasible, attempts shall be made to provide operators with sound-proof enclosure to operate the system. 	<ul style="list-style-type: none"> • All the equipment in different units will be designed/operated in such a way that the noise level shall not exceed 85 dB (A). • Periodical monitoring of work zone noise and outside plant premises. • Un-manned high noise zone will be marked as "High Noise Zone". • In shops where measures are not feasible, attempts shall be made to provide operators with sound-proof enclosure to operate the system. • Workers exposed to noise level will be provided with protection devices like earmuffs and will be advised to use them regularly, while at work. • Workers exposed to noisy work place shall be provided with rotational duties. • All workers will be regularly checked medically for any noise related health problem and if detected, they will be provided with alternative duty.

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity <ul style="list-style-type: none"> Workers exposed to noise level will be provided with protection devices like earmuffs and will be advised to use them regularly, while at work. Workers exposed to noisy work place shall be provided with rotational duties. All workers will be regularly checked medically for any noise related health problem and if detected, they will be provided with alternative duty. 	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
32	Effluents Generation And Management Measures <ul style="list-style-type: none"> Zero Liquid Discharge outside plant boundary Effluent generated from coke ovens would be separately treated in Biological Oxidation and Dephenolization (BOD) treatment unit for removal of phenolic compounds and cyanide Cooling tower blow downs and treated effluent from BOD plant of coke ovens would be taken to the CETP for further treatment and reuse as make-up water. 	Effluents Generation And Management Measures <ul style="list-style-type: none"> Zero Liquid Discharge outside plant boundary Effluent generated from coke ovens would be separately treated in Biological Oxidation and Dephenolization (BOD) treatment unit for removal of phenolic compounds and cyanide Cooling tower blow downs and treated effluent from BOD plant of coke ovens would be taken to the 	Effluents Generation And Management Measures <ul style="list-style-type: none"> Zero Liquid Discharge outside plant boundary Cooling tower blow downs would be taken to the CETP for further treatment and reuse as make-up water. Waste Water generated in Wet GCP, CCM and 	Effluents Generation And Management Measures <ul style="list-style-type: none"> Zero Liquid Discharge outside plant boundary Treatment of plant sanitary waste water including canteen effluent in a sewage treatment plant for separation of floating oil and reduction of BOD level.

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
	<ul style="list-style-type: none"> Treatment of plant sanitary waste water including canteen effluent in a sewage treatment plant for separation of floating oil and reduction of BOD level. 	<p>CETP for further treatment and reuse as make-up water.</p> <ul style="list-style-type: none"> Treatment of plant sanitary waste water including canteen effluent in a sewage treatment plant for separation of floating oil and reduction of BOD level. 	<p>HSM will be treated in dedicated Effluent Treatment Plants and treated water will be recycled back in plant process.</p> <ul style="list-style-type: none"> Treatment of plant sanitary waste water including canteen effluent in a sewage treatment plant for separation of floating oil and reduction of BOD level. 	
32(a)	Water treating facilities <ul style="list-style-type: none"> ETP-11 STP-7 	Water treating facilities <ul style="list-style-type: none"> ETP-9 STP-5 	Water treating facilities <ul style="list-style-type: none"> ETP-2 STP-1 	Water treating facilities <ul style="list-style-type: none"> ETP-0 STP-1
33	Solid and Hazardous Wastes Management Measures <ul style="list-style-type: none"> All non-hazardous solid wastes shall be utilized in-house in Sinter Plant/BOF. BF/BOF Slag shall be utilized in house or sold to cement manufacturers or used for road construction. Coal tar sludge and BOD sludge would be recycled for coke making by mixing with the coal charge. All other hazardous wastes shall be disposed in secured landfill/ handed over to authorized dealers for 	Solid and Hazardous Wastes Management Measures <ul style="list-style-type: none"> All non-hazardous solid wastes shall be utilized in-house in Sinter Plant/BOF. BF/BOF Slag shall be utilized in house or sold to cement manufacturers or used for road construction. Coal tar sludge and BOD sludge would be recycled for coke making by mixing with the coal charge. All other hazardous wastes shall be disposed in secured landfill/ handed over to authorized dealers 	Solid and Hazardous Wastes Management Measures <ul style="list-style-type: none"> All non-hazardous solid wastes shall be utilized in-house in Sinter Plant/BOF. BF/BOF Slag shall be utilized in house or sold to cement manufacturers or used for road construction. All other hazardous 	Solid and Hazardous Wastes Management Measures <ul style="list-style-type: none"> All non-hazardous solid wastes shall be utilized inhouse. All other hazardous wastes shall be disposed in secured landfill/ handed over to authorized dealers for disposal as per statutory norms.

SN	JSWSL at 18 MTPA	JSWSL at 13 MTPA	JVML at 5 MTPA	JSWCL
	Facility / activity granted Prior EC along with configuration and capacity of parent EC (E.g.: Configuration, Capacity, Area, Raw Materials, etc.)	Facility / activity granted Prior EC proposed to transfer to JSWSL along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JVML along with configuration and capacity	Facility / activity granted Prior EC proposed to transfer to JSWCL along with configuration and capacity
	disposal as per statutory norms.	for disposal as per statutory norms.	wastes shall be disposed in secured landfill/ handed over to authorized dealers for disposal as per statutory norms.	

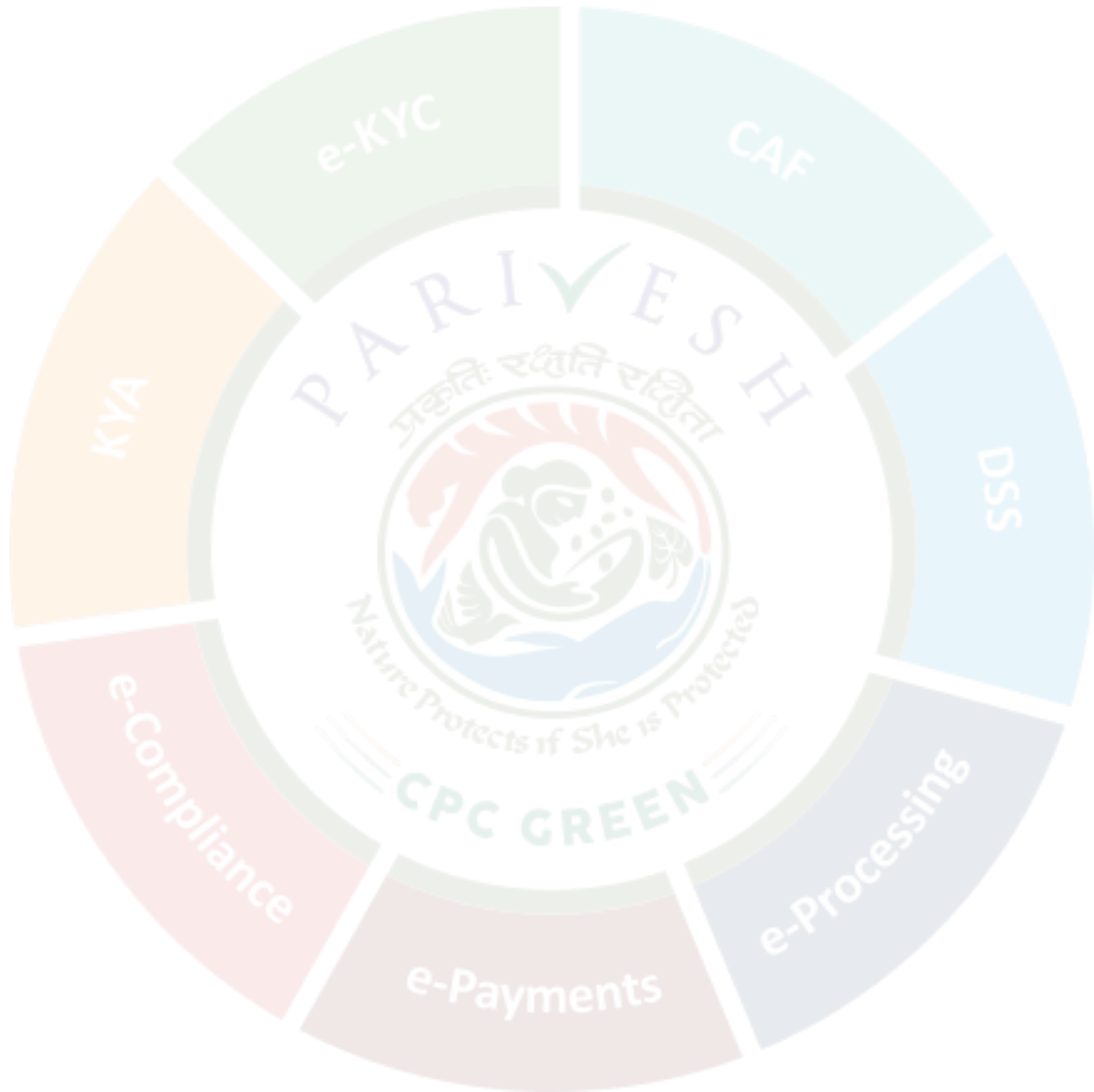
II. Environmental Liability Matrix

Sl. No	Environmental Liability	Parent Company JSWSL	Transferee Company 1 JVML	Transferee Company 2 JSWCL
1. Compliance Obligations				
1.	EC Compliance	Timely submission of Compliance to EC Conditions for the 13 MTPA Plant shall be the responsibility of JSWSL	Timely submission of Compliance to EC Conditions for the proposed 5 MTPA Plant shall be the responsibility of JVML	Timely submission of Compliance to EC Conditions for the existing 4 MTPA Cement plant along with the proposed 2 MTPA Unit shall be the responsibility of JSWCL
2.	CTE Compliance	Applicable for the 13 MTPA Steel Plant	Applicable for the 5 MTPA Steel Plant	Applicable for the 6 MTPA Cement Plant
3.	CTO Compliance	Applicable for the 13 MTPA Steel Plant	Applicable for the 5 MTPA Steel Plant	Applicable for the 6 MTPA Cement Plant
4.	Compliance to Hazardous waste mgmt. rules	Applicable for the 13 MTPA Steel Plant	Applicable for the 5 MTPA Steel Plant	Applicable for the 6 MTPA Cement Plant
5.	Compliance to Plastic waste mgmt. rules	Applicable for the 13 MTPA Steel Plant	Applicable for the 5 MTPA Steel Plant	Applicable for the 6 MTPA Cement Plant
6.	Compliance to E waste mgmt. rules	Applicable for the 13 MTPA Steel Plant	Applicable for the 5 MTPA Steel Plant	Applicable for the 6 MTPA Cement Plant
7.	Compliance to Bio medical mgmt. rules	Applicable for Medical wastes of JSW Sanjeevani Hospital and in plant Health Centres	Applicable for Medical wastes of and in plant Health Centres	Applicable for Medical wastes of and in plant Health Centres
2. Remediation/Mitigation obligations				
8.	EMP Measures	CAPEX and OPEX expenditure towards implementation of EMP Measures for	CAPEX and OPEX expenditure towards implementation of EMP Measures for	CAPEX and OPEX expenditure towards implementation of EMP Measures for

Sl. No	Environmental Liability	Parent Company JSWSL	Transferee Company 1 JVML	Transferee Company 2 JSWCL
		the 13 MTPA Steel Plant shall be the responsibility of JSWSL	the proposed 5 MTPA Steel Plant shall be the responsibility of JVML	the proposed expanded 6 MTPA Cement Plant shall be the responsibility of JSWCL
9.	Greenbelt Development	Development of minimum 33% of GB of the total project area of 7149 Acres shall be the responsibility of JSWSL	Development of minimum 33% of GB of the total project area of 833 Acres shall be the responsibility of JVML	Development of minimum 33% of GB of the total project area of 150 Acres shall be the responsibility of JSWCL
10	Remediation Plan (If Applicable)	In case of Violation of EC for the 13 MTPA Steel Plant, Expenditure towards mitigative measures for the Remediation Plan shall be the responsibility of JSWSL	In case of Violation of EC for the proposed 5 MTPA Steel Plant, Expenditure towards mitigative measures for the Remediation Plan shall be the responsibility of JVML	In case of Violation of EC for the proposed expanded 6 MTPA Cement Plant, Expenditure towards mitigative measures for the Remediation Plan shall be the responsibility of JSWCL
11	Natural and Community Resource Augmentation Plan (if applicable)	In case of Violation of EC for the 13 MTPA Steel Plant, Expenditure towards mitigative measures for the Natural and Community Resource Augmentation Plan shall be the responsibility of JSWSL	In case of Violation of EC for the proposed 5 MTPA Steel Plant, Expenditure towards mitigative measures for the Natural and Community Resource Augmentation Plan shall be the responsibility of JVML	In case of Violation of EC for the proposed expanded 6 MTPA Cement Plant, Expenditure towards mitigative measures for the Natural and Community Resource Augmentation Plan shall be the responsibility of JSWCL
3. Fines and penalties				
12	Liability towards reply to Show cause Notices	In case of issuance of Show Cause Notice regarding any Environmental Issues related to the 13 MTPA Steel Plant, JSWSL shall be liable.	In case of issuance of Show Cause Notice regarding any Environmental Issues related to the proposed 5 MTPA Steel Plant, JVML shall be liable.	In case of issuance of Show Cause Notice regarding any Environmental Issues related to the proposed expanded 6 MTPA Cement Plant, JSWCL shall be liable.
13	Directions issued by CPCB SPCB	In case of issuance of Directions under The Water	In case of issuance of Directions under The Water	In case of issuance of Directions under The Water

Sl. No	Environmental Liability	Parent Company JSWSL	Transferee Company 1 JVML	Transferee Company 2 JSWCL
		(Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 or The Environment (Protection) Act, 1986 related to the 13 MTPA Steel Plant, JSWSL shall be liable.	(Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 or The Environment (Protection) Act, 1986 related to the proposed 5 MTPA Steel Plant, JVML shall be liable.	(Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 or The Environment (Protection) Act, 1986 related to the proposed expanded 6 MTPA Cement Plant, JSWCL shall be liable.
14	Penalty due to EIA Violation	In case of violation of EIA Notification, 2006 by the 13 MTPA Steel Plant, payment towards any penalty as applicable shall be the responsibility of JSWSL	In case of violation of EIA Notification, 2006 by the proposed 5 MTPA Steel Plant, payment towards any penalty as applicable shall be the responsibility of JVML	In case of violation of EIA Notification, 2006 by the proposed expanded 6 MTPA Cement Plant, payment towards any penalty as applicable shall be the responsibility of JSWCL
15	Penalty due to failure in Compliance to Directions	In case of failure in Compliance to Directions by the 13 MTPA Steel Plant, payment towards any penalty or any other punishment as applicable shall be the responsibility of JSWSL	In case of failure in Compliance to Directions by the proposed 5 MTPA Steel Plant, payment towards any penalty or any other punishment as applicable shall be the responsibility of JVML	In case of failure in Compliance to Directions by the proposed expanded 6 MTPA Cement Plant, payment towards any penalty or any other punishment as applicable shall be the responsibility of JSWCL
4. Compensation obligations/Punitive Damages				
16	Due to Fines & Penalties	In case of issuance of any Fines or Penalties to the 13 MTPA Steel Plant, JSWSL shall be liable.	In case of issuance of any Fines or Penalties to the proposed 5 MTPA Steel Plant, JSWSL shall be liable.	In case of issuance of any Fines or Penalties to the proposed expanded 6 MTPA Cement Plant, JSWSL shall be liable.
5. Rehabilitation Obligations				
17	R&R (If applicable)	Applicable in case of any future expansion of the project area	Not Applicable	Not Applicable

Sl. No	Environmental Liability	Parent Company JSWSL	Transferee Company 1 JVML	Transferee Company 2 JSWCL
		involving R&R		



EC conditions compliance matrix (Specific and General EC conditions) after splitting

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC Transferee Company 2 (JSWCL)
Specific Conditions		
i.	Green belt shall be developed in an area of 1068 ha all along the periphery of the project site by September, 2024 as committed with a tree density of 2500 trees per hectare.	<p>Revised EC Condition - Green belt shall be developed in 33% (20 ha) of the existing plant area of JSWCL (60.7 ha) with a tree density of 2500 trees per hectare.</p> <p>Compliance: Greenbelt has been developed in 10.11 ha (16.65 %) of the cement plant area at present. Remaining GB area shall be developed by September 2024.</p> <p>Remarks: The proposed 2 MTPA Cement grinding unit will be installed inside the existing plant boundary of JSWCL.</p>
ii.	Project proponent shall install covered sheds for coal storage in an area of 32325 sqm by June 2022 as committed.	<p>Revised EC Condition - Nil</p> <p>Compliance: Not Applicable</p> <p>Remarks: The proposal for coverage of coal storage area is in JSWSL premises.</p>
iii.	84 km long pipe conveyor shall be installed by 31/03/2024 as committed.	<p>Revised EC Condition – Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.</p> <p>Compliance: JSWCL gets Clinker, and other raw materials such as BF slag using rail wagons.</p> <p>Remarks: Nil</p>

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
		Transferee Company 2 (JSWCL)
iv.	Ambient air quality shall be improved by adopting measures like pipe conveyor, use of by product gas in place of coal and covered shed. Noise levels shall be controlled by decrease in truck traffic after completion of the pipe conveyor.	Revised EC Condition – Ambient air quality shall be improved by adopting measures like DE systems at all junction houses, DFDS and covered storage of all raw materials. Compliance: Necessary measures like Dust extraction systems at all junction houses, DFDS and covered storage shall be Remarks: Nil
v.	Environment Clearance for the township project shall be obtained from the concerned competent authority.	Revised EC Condition – Nil Compliance: Not Applicable Remarks: No township involved.
vi.	PP shall control rooftop emissions from SMS 1 &2 shall be eliminated by 31/03/2022 and that from SMS 2 by installation of primary De-dusting system by 31/10/2022 as committed.	Revised EC Condition – Nil Compliance: Not Applicable Remarks: SMS1 and SMS2 are part of JSWSL
vii.	Junction houses in raw material handling area requiring repair and overhauling to control fugitive emissions shall be modified by March 2022.	Revised EC Condition – Nil Compliance: Not Applicable Remarks: Junction houses in existing raw material handling area requiring repair are part of JSWSL's steel plant.
viii.	Desulfurization of Coke Oven Gas, use of low Sulphur coal, Flue Gas Desulphurization in captive power plant shall be adopted to control SO2 emissions.	Revised EC Condition – Nil Compliance: Not Applicable Remarks: Related to Steel Plant.

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
		Transferee Company 2 (JSWCL)
ix.	Project proponent shall install 2 additional Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in addition to already installed 4 CAAQMS.	Revised EC Condition – Project proponent shall install 1 Continuous Ambient Air Quality Monitoring Stations (CAAQMS) by 31-12-2024. Compliance: 1 no of CAAQMS Station shall be installed near JSWCL plant main gate. This is in addition to 6 CAAQMS installed by JSWSL Remarks: None
x.	Following Cleaner technologies shall be adopted by PP as committed: a) MEROS in Sinter plants to control emissions b) Sinter cooler waste heat recovery to generate power c) Dry gas cleaning in BF and BOF converters d) TRT and Stove waste gas heat recovery system in BF e) Secondary Fume Extraction system in BOF with dog houses f) Independent FE for LRF. g) Pipe conveyor to transport iron ore from various mines h) 3.5 km wind curtains in coal yard i) WHRB for EAF waste heat recovery j) Installation of Zero Power Furnace. k) CO2 injection for pH control in SMS. l) Single oven pressure control in Coke Ovens to control Charging Emissions along with CGT car and HPLA system.	Revised EC Condition – Nil. Compliance: Not Applicable. Remarks: None.
xi.	100% solid waste utilization by means of following state-of-the-art technologies for recovery and recycling various wastes generated within the plant premises shall be adopted.	Revised EC Condition – 100% Solid waste utilization shall be ensured. Compliance: 100 % solid waste utilization will be ensured.

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC Transferee Company 2 (JSWCL)
	<ul style="list-style-type: none"> 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. Steam Box technology for SMS slag ageing to make it suitable for use as aggregate in road making. vi. Slag sand plant (17000 TPD) is proposed for converting steel slag to sand for sale. vii. LHF slag briquetting plant (300 TPD) for production of briquettes to replace imported synthetic slag. viii. Powder steel slag fines for use in land reclamation and soil conditioning ix. Carbon recovery plant - Carbon recovery shall be done from BF dust, BF GCP slurry and COREX Furnace GCP slurry recycled back into pellet plant 	<p>Remarks: Nil.</p>
xii.	<p>The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC</p>	<p>Revised EC Condition – Nil</p> <p>Compliance: Not Applicable</p> <p>Remarks: JSW Steel limited as a principal lessor has prepared the integrated Site specific Wild life conservation plan and submitted to Deputy conservator of Forests. JSWSL shall implement the plan in consultation with the State forest department.</p>
i.	<p>The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments</p>	<p>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</p>

Sl. No	EC Conditions vide letter dated 29/11/2021	<p>Revised EC</p> <p>Condition after</p> <p>Proposed Partial</p> <p>Transfer of EC</p>
		<p align="center">Transferee Company 2 (JSWCL)</p>
i.	<p>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</p> <p>The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 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, 1986 or NABL accredited laboratories.</p>	<p>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.</p> <p>Compliance: Noted and agreed Remarks: None</p> <p>Revised EC Condition - The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 01 No. 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, 1986 or NABL accredited laboratories.</p> <p>Compliance: One number CAAQMS shall be installed by JSWCL near main gate.</p> <p>This is in addition to the 6 CAAQMS stations installed by JSWSL, and 1 by JVML.</p> <p>Remarks: None.</p>
ii.	<p>The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories</p>	<p>Revised EC Condition - The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p> <p>Compliance: Fugitive emissions shall be monitored once in every quarter through NABL accredited laboratory.</p>

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
		Transferee Company 2 (JSWCL)
		Remarks: None
iii.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions	Revised EC Condition - Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions. Compliance: Sampling facility at process stacks will be provided as per the CPCB guidelines. Remarks: None
iv.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards	Revised EC Condition - Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards. Compliance: Noted and shall be complied Process bag filter- 1 Remarks: None
v.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags	Revised EC Condition - The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags. Compliance: Noted and shall be complied Remarks: None
vi.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly	Revised EC Condition - Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly. Compliance: Noted and shall be complied, JSWCL has already deployed 1 No of Vacuum cleaner for ensuring fugitive emission control. Remarks: None
vii.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after	Revised EC Condition – Nil

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
Transferee Company 2 (JSWCL)		
	briquetting/ agglomeration.	Compliance: Not Applicable Remarks: Related to Steel Plant.
iii.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin	Revised EC Condition – Ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation. Use closed bulkers for carrying fly ash. Compliance: Covered transportation and conveying of coal and other raw material to prevent spillages and dust generation, Closed bulkers will be used for carrying fly ash. Remarks: None
ix.	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).	Revised EC Condition - Nil Compliance: Not Applicable Remarks: Related to Steel Plant.
x.	Land-based APC system shall be installed to control coke pushing emissions	Revised EC Condition - Nil Compliance: Not Applicable Remarks: Related to Steel Plant.
xi.	Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	Revised EC Condition - Nil Compliance: Not Applicable Remarks: Related to Steel Plant.
xii.	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.	Revised EC Condition - Nil Compliance: Not Applicable Remarks: Related to Steel Plant.
iii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Revised EC Condition - Wind shelter fence and chemical spraying shall be provided on the raw material stock piles. Compliance: Wind shelter fence and chemical spraying will be provided on the raw material stock piles. Remarks: None
iv.	Design the ventilation system for adequate air changes as per prevailing	Revised EC Condition - Design the ventilation system for adequate air changes as

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
Transferee Company 2 (JSWCL)		
	norms for all tunnels, motor houses, Oil Cellars	per prevailing norms for all tunnels, motor houses, and cement bagging plants. Compliance: Ventilation system shall be provided with adequate air changes as per the prevailing norms for all tunnels, motor houses and oil cellars. Remarks: None
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Revised EC Condition - The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 612(E) dated 25 th August 2014 (Cement) and subsequent amendment dated 9 th May 2016 (Cement) and 10 th May 2016 (in case of Co-processing Cement) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. Compliance: Necessary continuous monitoring systems will be provided and they will be connected to CPCB and KSPCB. These equipment's will be calibrated periodically as per CPCB standards Remarks: None
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Revised EC Condition - The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories. Compliance: Noted and shall be complied, The environmental quality of ground water will be monitored through MoEF&CC accredited laboratory. Remarks: None

Sl. No	EC Conditions vide letter dated 29/11/2021	<p>Revised EC</p> <p>Condition after</p> <p>Proposed Partial</p> <p>Transfer of EC</p>
		Transferee Company 2 (JSWCL)
iii.	The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 4 14 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time as amended from time to time;	<p>Revised EC Condition – There shall not be any discharge of effluent from the Slag Grinding & Mixing unit and the effluents shall be managed on ZLD concept.</p> <p>Compliance: Noted and shall be complied.</p> <p>ETP- Effluent is not generated by JSWCL.</p> <p>Remarks: None</p>
iv.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	<p>Revised EC Condition - Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.</p> <p>Compliance: Noted and shall be complied. 1 (One) STP has been commissioned by JSWCL next to admin building.</p> <p>Remarks: None</p>
v.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	<p>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.</p> <p>Compliance: Garland drains and collection pits will 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.</p> <p>Remarks: None</p>
vi.	Tyre washing facilities shall be provided at the entrance of the plant gates.	<p>Revised EC Condition - Tyre washing facilities shall be maintained at the entrance of the plant gates.</p> <p>Compliance: Tyre washing facilities will be provided at the entrance of the plant gates.</p> <p>Remarks: None</p>
vii.	Treated water from ETP of COBP shall not be used for coke quenching	<p>Revised EC Condition – Nil</p> <p>Compliance: Not Applicable</p> <p>Remarks: Related to Steel Plant.</p>

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
		Transferee Company 2 (JSWCL)
viii.	Water meters shall be provided at the inlet to all unit processes in the steel plants	Revised EC Condition - Water meters shall be provided at the inlet to all unit processes in the cement plants. Compliance: Noted and shall be complied, Water meters will be installed at the inlet unit processes. Remarks: None
i.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report	Revised EC Condition - Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. Compliance: Noted and shall be complied. Noise levels will be monitored regularly. The report will be submitted along with six month EC compliance report regularly. Remarks: None
i.	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	Revised EC Condition – Nil Compliance: Not Applicable Remarks: Related to Steel Plant.
ii.	Restrict Gas flaring to < 1%.	Revised EC Condition – The project proponent make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/kg of clinker. Compliance: Noted and shall be complied, efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/kg of clinker will be carried out. Remarks: None
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Revised EC Condition - Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
		Transferee Company 2 (JSWCL)
		Compliance: Noted and shall be complied, JSWCL will explore the possibility of laying solar panels to generate power from building roof tops and for solar light system for all common areas, street lights and parking. Remarks: None
iv.	Provide LED lights in their offices and residential areas	Revised EC Condition - Provide LED lights in their offices and residential areas. Compliance: Noted and shall be complied, LED lights will be used in offices and colonies. Remarks: None
v.	Ensure installation of regenerative/recuperative type burners on all reheating furnaces	Revised EC Condition – Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards. Compliance: Noted and shall be complied. Maximum utilization of fly ash, slag and sweetener in cement blend as per BIS standards will be done. Remarks: None
VI Waste management		
i.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Revised EC Condition – Used refractories shall be recycled as far as possible. Compliance: Noted and shall be complied, Used refractories if any shall be recycled as far as possible. Remarks: None
ii.	Kitchen waste shall be composted or converted to biogas for further use	Revised EC Condition - Kitchen waste shall be composted or converted to biogas for further use. Compliance: Noted and shall be complied, Kitchen waste if any generated will be composted or converted to biogas for further use. Remarks: None
VII Green Belt		
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for	Revised EC Condition - The project proponent shall prepare GHG emissions inventory for the plant and shall submit the

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
Transferee Company 2 (JSWCL)		
	reduction of the same including carbon sequestration by trees.	programme for reduction of the same including carbon sequestration by trees. Compliance: Noted and shall be complied, GHG emissions inventory for the plant will be prepared and carbon sequestration potential of plantations will be assessed. Remarks: None
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Revised EC Condition - Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. Compliance: Noted and shall be complied, Emergency preparedness plan based on the HIRA and Disaster Management plan will be implemented. Remarks: None
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Revised EC Condition - The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms. Compliance: Heat stress analysis for the workmen who work in high temperature work zone shall be carried out and appropriate PPE's shall be provided. Remarks: None
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained	Revised EC Condition - Occupational health surveillance of the workers shall be done on a regular basis and records maintained. Compliance: Noted and being complied. Periodical health check-ups of workers are being conducted as stipulated and records are being maintained. Remarks: None
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/20 17-IA.III dated 30/09/2020	Revised EC Condition – Nil Compliance: Not Applicable Remarks: Nil

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
		Transferee Company 2 (JSWCL)
ii.	<p>The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation /violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.</p>	<p>Revised EC Condition - The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation /violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.</p> <p>Compliance: JSWCL has well laid out Environmental policy, which is duly approved by the board of directors.</p> <p>Remarks: None</p>
iii.	<p>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</p>	<p>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.</p> <p>Compliance: Separate environmental cell both at the plant and at company head quarter level with qualified personnel have been setup under the control of senior executive.</p> <p>Remarks: None</p>
X Miscellaneous		
i.	<p>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</p>	<p>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.</p>

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
	permanently.	Transferee Company 2 (JSWCL) Compliance: Noted and shall be complied with. JSWCL will publish in two local newspapers within seven days of receiving EC. Remarks: None
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Revised EC Condition - The copies of the environmental clearance along with salient features of the project shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt. Compliance: After receipt of EC, The copies of EC along with Salient features of the project will be submitted to the Heads of local bodies, panchayats in addition to the relevant offices of the government. Remarks: None
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis	Revised EC Condition - The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis. Compliance: Noted and agreed, the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website being updated the same on half-yearly basis by JSWCL Remarks: None
iv.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Revised EC Condition - The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. Compliance: Noted and agreed Anticipated emissions from JSWCL are: a) Stack Emission <ul style="list-style-type: none"> • PM10 – 6.5 (Existing) g/s + 1.6

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
		Transferee Company 2 (JSWCL) (New) g/s Remarks: None
v.	<p>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.</p>	<p>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.</p> <p>Compliance: Noted and agreed, JSWCL is submitting the 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.</p> <p>Remarks: None</p>
vi.	<p>The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.</p>	<p>Revised EC Condition - The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.</p> <p>Compliance: Noted and agreed, Environmental statement in Form V will be submitted every year to the SPCB.</p> <p>Remarks: None</p>
vii.	<p>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.</p>	<p>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.</p> <p>Compliance: Noted and agreed, Date of financial closure and final approval of the project being communicated to the RO as well as Ministry.</p> <p>Remarks: None</p>
viii.	<p>The project proponent shall abide by all the commitments and recommendations made in the</p>	<p>Revised EC Condition - The project proponent shall abide by all the commitments and recommendations made in the</p>

Sl. No	EC Conditions vide letter dated 29/11/2021	<p>Revised EC</p> <p>Condition after</p> <p>Proposed Partial</p> <p>Transfer of EC</p>
Transferee Company 2 (JSWCL)		<p>Environmental appraisal report and during presentation to the Expert Appraisal Committee.</p> <p>Compliance: Noted and agreed, JSWCL will abide by the commitments and recommendations made in the Environmental appraisal report and during presentation to the Expert Appraisal Committee.</p> <p>Remarks: None</p>
ix.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	<p>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).</p> <p>Compliance: Noted and agreed, Without prior approval JVML will not carry out expansion or modification in the plant.</p> <p>Remarks: None</p>
x.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<p>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.</p> <p>Compliance: Noted and agreed, JSWCL agrees the condition and will not conceal factual data or submission of false/ fabricated data, it also agrees that it may lead to revocation of the EC.</p> <p>Remarks: None</p>
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	<p>Revised EC Condition - The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</p> <p>Compliance: Noted and agreed, that Ministry may revoke or suspend the clearance if implementation of any one of the above condition is not satisfactory.</p> <p>Remarks: None</p>

Sl. No	EC Conditions vide letter dated 29/11/2021	Revised EC Condition after Proposed Partial Transfer of EC
		Transferee Company 2 (JSWCL)
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Revised EC Condition - The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions. Compliance: Noted and agreed, JSWCL will implement additional specific conditions in a time bound manner. Remarks: None
xiii.	The RO of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/ monitoring reports	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. Compliance: Noted and agreed, Full cooperation shall be extended to the RO of this ministry for monitoring and requisite data/information/monitoring reports shall be furnished. Remarks: None
xiv.	Any Appeal against the EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Revised EC Condition - Any Appeal against the EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. Compliance: Noted and agreed that any appeal against the EC shall lie with the National Green tribunal. Remarks: None

Additional Specific Condition:

Applicability of Additional specific Conditions for JSWCL after splitting of existing EC/ Compliance of Additional Specific Conditions applicable to JSWCL

Sl. No.	Additional Specific Condition	Compliance
i.	The PP shall install the requisite number of	<ul style="list-style-type: none"> One number CAAQMS shall be installed by JSWCL at the cement plant main gate.

Sl. No.	Additional Specific Condition	Compliance
	CAAQMS linked with CPCB server at designated places.	<ul style="list-style-type: none"> This is in addition to the 6 CAAQMS stations already installed by JSWSL and 1 CAAQMS station at JVML.
ii.	JSWCL shall undertake Village Adoption programme as committed.	<ul style="list-style-type: none"> Village Adoption programme shall be undertaken by Project Proponent and approx. Rs. 15 Cr. has been budgeted for the same by JSWSL, JVML and JSWCL. 10 Villages of Core Zone which will be adopted are : - Nagalapura, Anathapura, Chikantapura, Kodalu, Basapura, Talur, Madapura, Daroji, Joga, Lingadahalli. 4 villages will be adopted by JSWSL, another 4 villages by JVML and remaining 2 villages by JSWCL
iii.	All stockyards shall have impervious flooring and shall be equipped with dust suppression. Stock yards shall also have garland drains to trap the run off material.	All the stockyards have impervious flooring and are equipped with dust suppression.
iv.	BF slag shall be obtained through Wagon from JSWSL.	JSWCL shall obtain BF slag through wagon from JSWSL.
v.	Shall have a separate STP.	JSWCL has separate STP to treat its sewage.
vi	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.	Bag filters will be cleaned regularly and efficiency of bag filter systems are being monitored at regular intervals