

# **ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT**

## **JSW STEEL LTD, DOLVI WORKS**

### **Six Monthly Compliance, Status report**

**(Oct' 2024 to Mar'2025)**

**Expansion of Integrated Steel Plant from 5 to 10 MTPA and Power Plant from 300 MW to 600 MW (Gas Based) of M/s JSW Steel Limited at Geethapuram, Village Dolvi, Tehsil Pen, District Raigarh in Maharashtra.**

**Environmental Clearance Letter No J-11011/176/2013-IA-II(I) dated 25/08/2015  
amendment dated 23/01/2018**

**ENVIRONMENTAL MANAGEMENT DEPARTMENT**

**JSW STEEL LTD, DOLVI WORKS, TALUKA PEN, RAIGAD-DISTRICT, MAHARASHTRA 402107**

**Compliance Report of Expansion of Integrated Steel Plant from 5 to 10 MTPA and Power Plant from 300 MW to 600 MW (Gas Based) of M/s JSW Steel Limited at Geethapuram, Village Dolvi, Tehsil Pen, District Raigarh in Maharashtra vide. Environmental Clearance Letter No J-11011/176/2013-IA-II(I) dated 25/08/2015 amendment dated 23/01/2018 for the period Oct'24 to Mar'25.**

**Annexure-III**

**Point-wise Compliance Reports of Environment Clearance**

Sr. No.	Condition	Compliance Status
1	This has reference to your letter no Nil dated 6 <sup>th</sup> February 2015 along with copies of EIA/EMP report seeking Environmental Clearance under provisions of the EIA Notification 2006 for the project mentioned above. The ToR to the project was awarded by MoEF&CC vide letter dated 28 <sup>th</sup> May 2013 for preparation of EIA/EMP report. The proposed project activity is listed at Sr. No 3(a) in primary metallurgical industry under Category "A" of the Schedule of EIA Notification 2006 and appraised by the Expert Appraisal Committee (Industry).	Noted
2	The Ministry of Environment, Forests and Climate Change (MoEF&CC) has examined your application of EC for the aforesaid project. It is noted that M/s JSW Steel Limited (JSWSL) proposes to expand the integrated steel plant to 10.0 MTPA from existing 5.0 MTPA at Geethapuram, Dolvi in Raigad District of Maharashtra. The existing steel plant is based on the Direct Reduced Iron (DRI)- Blast Furnace- CONARC-Ladle Furnace and VD/VOD- Continuous Casting- Rolling Mill (CSP) Route. The expansion would be based on proven BF- BOF Route. Expansion of 3.0 MTPA Steel Plant to 5.0 MTPA and 300 MW Captive Power Plant is under implementation. The Site falls between Longitude- 73° 00' 00"- 73° 05' 00" E, Latitude 18° 39' 00" - 18° 45' 00" N. Lnad comprises Dolvi, Jui Bapuji & Khar Karavi Village. Pen is the nearest railway station at about 8 Km (aerial distance) on the Konkan Railway line connecting Mumbai- Mangalore along the West Coast of India. The nearest Airport is Mumbai	Noted

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<p>(National and International) located about 80 Km in North direction from the proposed project site. The Company has about 1200 acres of land in its possession for its existing operating integrated steel plant complex of 5.0 MTPA capacity. Some of the proposed additional capacities are proposed to be setup within the existing plant and some need relocated acquiring additional 600 acre of land. There is no national park, biosphere reserve, sanctuary, habitat of migratory bird, archaeological site, defence installation, etc. within 10 Km of the periphery of the plant boundary. The total project cost is estimated to be Rs. 17000 Cr. The CSR Budget is Rs. 225 Cr. For 5 MTPA project and Rs. 425 Cr for 10 MTPA project. The requirement of total manpower for the proposed expansion project will be about 5000. However, the proposed Integrated Steel plant will additionally generate more than 15000 indirect secondary and tertiary employments.</p>	
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3	The production facilities after the expansion are given below: (Expansion of JSWSL (existing 5 MTPA to 10 MTPA))				<b>Complied.</b> Part of the project is under implementation.		
	<b>S. No</b>	<b>Technological Facility</b>	<b>EC accorded for Facilities under 5 MTPA</b>	<b>EC accorded for</b>	<b>S. No</b>	<b>Technological Facility</b>	<b>Status of Implementation</b>
	1.	DR1 (Gas based Mega Module)	2.0 MTPA (by augmentation)	2.0 MTPA	1.	DR1 (Gas based Mega Module)	- 2 MTPA plant in operation & - 2 MTPA plant under technology finalization.
	2.	Pellet Plant	4.0 MTPA	4.0 MTPA	2.	Pellet Plant	- commissioned and in operation. (Vide amendment of EC in 2020, total capacity of 8.0 MTPA)
	3.	Coke Ovens including By-product plant	2.0 MTPA	2.5 MTPA	3.	Coke Ovens including By-product plant	3 MTPA Capacity commissioned (Vide amendment and EC transfer dtd 22 <sup>nd</sup> Nov 2021, 3.5 MTPA Coke Oven Including by product plants is transferred to
	4.	Sinter Plant	2.8+3.2 MTPA	8.0 MTPA	4.	Sinter Plant	2.8+2.5 MTPA plants operational, balance capacity to be implemented (Vide amendment of EC in 2020, total capacity of Sinter Plant is 10 MTPA)
	5.	Blast Furnace including Pig casting	3.6 MTPA (by augmentation)	4.5 MTPA	5.	Blast Furnace including Pig casting	8.0 MTPA capacity implemented.
	6.	SMS (CONARC)	5.2 MTPA (by	--	6.	SMS (CONARC)	5.2 MTPA capacity implemented.
	7.	SMS -BOF	--	6.0 MTPA	7.	SMS -BOF	6.0 MTPA Commissioned
	8.	Ladle Furnace (LF)	2x200t +205t	2X300t	8.	Ladle Furnace (LF)	Commissioned
	9.	VD/VOD & RH-TP	1x200t+1x205t	2x300t	9.	VD/VOD & RH-TP	- 1x200t+1x205t in operation - 1x200t +1x205t 2x300t to be implemented.
	10.	CSP(HRC Coil) Thin Caster-cum-Hot Strip Finishing Train	3.5 MTPA (By Augmenting)	-	10.	CSP(HRC Coil) Thin Caster-cum-Hot Strip Finishing Train	Commissioned
	11.	Conventional Slab Caster	2x1 strands (3.68 MTPA)	2x2 strands	11.	Convention al Slab	Commissioned
	12.	Billet Caster	-	1x6 Strands			
	13.	Plate Mill	1.5 MTPA	-			
	14.	CRM (Hot Rolled Skin Pass + Cold Rolled Full Hard Coil + Hot Rolled Pickled & Oiled Coil)	1.0 MTPA	1.5 MTPA			
	15.	Galvanizing Line (Cold Rolled Steel Strips, Hot Dip Zinc Coated Full Hard)	0.6 MTPA	-			
	16.	Electrical Steel CRGO line	0.4 MTPA	-			
	17.	Tin Plate Mill	0.4 MTPA	-			
	18.	Colour Coating Plant	0.5 MTPA	-			



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	19.	Lime/Dolo Plant	1800 TPD	1800 TPD	12	Billet Caster	Commissioned
	20.	Oxygen Plant	4100 TPD	3500 TPD	13	Plate Mill	To be implemented
	21.	Hot Rolling Mill with shearing & slitting line	-	5.0 MTPA	14	CRM (Hot Rolled Skin Pass + Cold Rolled Full Hard Coil + Hot Rolled Pickled & Oiled Coil)	To be implemented
	22.	Bar Mill	-	1.4 MTPA			
	23.	Slag & Clinker Grinding Unit	"	10 MTPA	15	Galvanizing Line (Cold Rolled Steel Strips, Hot Dip Zinc Coated Full Hard)	To be implemented
	24.	Captive Power Plant	300 MW	300 MW			
	25.	Township	-	150 acres	16	Electrical Steel CRGO line	To be implemented
					17	Tin Plate Mill	To be implemented
					18	Colour Coating Plant	To be implemented
					19	Lime/Dolo Plant	Commissioned
					20	Oxygen Plant	Commissioned
					21	Hot Rolling Mill with shearing & slitting line	Commissioned
					22	Bar Mill	Commissioned
					23	Slag & Clinker Grinding Unit	Implemented, EC transferred to JSW
					24	Captive Power Plant	Commissioned
					25	Township	Consent to Establish for township granted by Maharashtra Pollution Control Board vide UAN No. 0000190802/CE/2412001132, dtd. 14/12/2024 and the construction work is in progress.

**Compliance Report of Expansion of Integrated Steel Plant from 5 to 10 MTPA and Power Plant from 300 MW to 600 MW (Gas Based) of M/s JSW Steel Limited at Geethapuram, Village Dolvi, Tehsil Pen, District Raigarh in Maharashtra vide. Environmental Clearance Letter No J-11011/176/2013-IA-II(I) dated 25/08/2015 amendment dated 23/01/2018 for the period Oct'24 to Mar'25.**

4	<p>The total water requirement for the 10 MTPA steel plant, 600 MW power plant and township will be about 116 MLD. At present JSW ISPAT Steel Ltd. Dolvi Works has been allocated about 56 MLD water from River Amba, Nagothane, K.T. Bandhara and consent for 30 MLD has been obtained. Application is in progress for the balance amount. M/s JSW has permission for drawl of 53.66 MLD from irrigation department, Govt. of Maharashtra. Water drawl from River Amba sanctioned. Permission for additional 65 MLD water is under consideration of Govt. of Maharashtra. It was further stated that the region received heavy rainfall of about 3000 mm annually and surplus water is available in the Dam.</p>	<p>Agreement with Irrigation department, Raigad, GoM for total 160.84 MLD has been executed, copy enclosed as <b>Annexure-1</b>.</p> <p><b>Hence the condition has been complied</b></p>
5	<p>The wastewater generated from indirect cooling circuit would be routed through the cooling tower and pressure filter for recycling purpose. The wastewater generated from the coke ovens will be treated in a bio-oxidation plant to reduce the level of phenolic compounds, oil &amp; grease and cyanide. The treated wastewater will be reused in the system. The wastewater of gas cleaning plants of blast furnace and steel melt shop containing suspended solids will be clarified in the wastewater treatment plant. The clarified water will be recycled to the waste gas cleaning units. Similarly, the wastewater coming out from the continuous casting machine will be treated to remove scale and oil and the treated water will be recycled after cooling. The plant sanitary wastewater will be treated in sewage treatment plant and the treated water will be used for dust suppression and maintenance of plant green belt.</p>	<p><b>Complied.</b></p> <p>Indirect cooling circuit is routed through cooling tower and pressure filter. Details of Pressure filter and photograph enclosed as <b>Annexure-2(a)</b>.</p> <p>Wastewater generated from the coke ovens is treated in a bio-oxidation and De-phenolisation plant to meet the treatment standards. Photograph of BOD Plant are attached as <b>Annexure-2(b)</b></p> <p><b>Hence the condition has been complied</b></p>

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6	<p>De-dusting system with bag filters at all dust generating locations in all the units have been installed to control dust emission as well as in the BF cast house and SMS and dust emission levels at work zone are within prescribed limit. For the expansion project (5 MTPA), which is under various stages, secondary fugitive dust emission system will be installed at the BF cast house, SMS and all other units.</p>	<p><b>Complied</b></p> <p>All necessary air pollution control devices provided:</p> <ul style="list-style-type: none"> <li>• Stack of adequate height &amp; diameter with continuous stack monitoring facilities for all the stacks are provided, 46 nos of stacks are connected through OCEMS to CPCB and MPCB.</li> <li>• ESP (17nos) and Bag Filters (157nos), Cyclone &amp; Venturi Scrubber (06 nos), Dry Cyclone separator (01 no) are provided to control the PM emission from stacks within norm.</li> <li>• Raw Material handling area, yard sprinklers, dry fog system, Dust extraction systems provided to control the fugitive emissions. Constructed covered sheds for Raw Material storage purpose.</li> <li>• Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage</li> <li>• Covered shed for Jetty yard-B with a total capacity of 305,000 MT for Iron Ore and Flux.</li> <li>• Covered Sheds (2 Nos) for Pellet and Coke Storage of Capacity-1,20,000 MT each.</li> <li>• Covered shed for storing Iron Ore Bearing Material and Flux of Capacity 4,27,000 MT</li> </ul> <p><b>Environmental Benefits of Covered Shed:</b></p> <ul style="list-style-type: none"> <li>• No fugitive emission during handling of material</li> <li>• No water contamination during rains</li> <li>• No spillage of material on roads</li> <li>• Covered storage shed prevents dust emission in the environment during operation of the yard.</li> <li>• Total expenditure on covered shed will Rs 320 Crores</li> <li>• Investment on Yard sprinklers, De-dusting system and Dry fogging system Rs 77.29</li> </ul>
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		<p>Crores</p> <ul style="list-style-type: none"> <li>• Energy efficient technologies provided in the Plant like waste heat recovery system, Top gas recovery turbine from Blast furnace and Gas Based power plant.</li> <li>• All internal roads are made by concrete.</li> <li>• Regular operation of Road Sweeping machines and water sprinkler on road.</li> <li>• Transfer of De-dusting system dusts and other secondary dusts generated from Pollution Control equipment by bulkers.</li> <li>• The transfer of raw material from Jetty to plant is 100 % through belt and pipe conveyors thereby eliminating any chances of fugitive emission through transportation of material from outside plant to the raw material yard there by improving the Ambient Air Quality.</li> </ul> <p><b>Hence the condition has been complied</b></p>
7	Public hearing was conducted on 28.01.2021 at Pen Education Society's Jaikisan Vidya Mandir and Higher Medium School at Wadkhal, Taluka Pen, Dist Raigad, Maharashtra. The issue raised during the public hearing inter alia include measures for pollution control, information on gas holder installed in the project, infrastructure development for water supply in the neighbouring areas, repair of roads, road traffic, development of fishing activity, repair of kharland bund, arrangement for village candidates sent for training in Bellary, more employment generation for the local etc.	<b>Complied.</b>
8	The matter was considered in the 31 <sup>st</sup> meeting held on 8 <sup>th</sup> - 9 <sup>th</sup> January, 2015 when it was decided to visit the site. Accordingly, site visit was conducted on 9 <sup>th</sup> March 2015 by sub-committee. Based on the site visit report of the	<b>Noted</b>

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	sub-committee and its recommendation the proposal was further considered by the Expert Appraisal Committee (Industry) during its 35 <sup>th</sup> meeting held on 26 <sup>th</sup> 27 <sup>th</sup> March 2015 and recommended the project for environmental clearance subject to stipulation of the following specific conditions and other mitigative measures and conditions for environmental protection:	
9	The Ministry of Environment, Forests and Climate Change (MoEF&CC) on the basis of the aforesaid recommendations of the EAC (I), hereby decided to grant Environmental Clearance to the project under the provisions of EIA Notification dated 14 <sup>th</sup> September 2006, subject to strict compliance of the following Specific and General conditions:	Noted.
<b>A</b>	<b>Specific Conditions</b>	
i	The project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent discharge, as provided by CPCB and submit report to Ministry and its Regional Office.	<p><b>Complying with</b></p> <ul style="list-style-type: none"> <li>Continuous Emission Monitoring System is installed at 46 Nos stack &amp; connected to MPCB &amp; CPCB for transmission of data online on real time basis, Photo of screen of CEMS is attached as <b>Annexure-3</b>.</li> <li>Information submitted to Regional Office of MoEF&amp;CC along with six monthly compliances.</li> </ul> <p><b>Hence the condition has been complied.</b></p>
ii	The PP should ensure treatment of effluent particularly from Blast Furnace (BF) and Coke Oven plant. The plant should be designed to meet the cyanide standards stipulated by MoEF&CC under EPA Act 1986.	<p><b>Complied.</b></p> <p>Effluent from Coke oven plants is being treated in Biological and De-phenolization Plants (BOD) for treatment of effluent as per standard.</p> <p>Effluent Treatment Plant (ETP) for effluent from gas cleaning plant of BF-1 is provided and for BF-2 the gas cleaning system is dry type, Hence, no effluent from gas cleaning of BF-2 generated.</p>

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		Photographs of Effluent Treatment Plants of Coke Oven Plants along with analysis report of treated effluent and ETP of Blast Furnace 1 is enclosed as <b>Annexure-4</b> .
iii	The commitment made by the PP for plantation of the green belt to the tune of 655 acres should be expedited. Three rows of green belt, 12-15 meters wide, all along the periphery of the plant should be planted.	<p>As per the EC further amended on 06.06.2020, green belt shall be developed in an area of 16% of project area within the project site and 33% of Project area within the 10 km of study area.</p> <p>The copy of the MoM of 4<sup>th</sup> EAC meeting dated 26<sup>th</sup> February 2016 is attached in <b>Annexure 7</b></p> <p><b>Green Belt within Plant:</b></p> <p>Presently, 13% green belt is developed over 80.00 ha land within the plant premises with 217505 Nos of trees.</p> <p>Balance 18.42 Ha (3%) green belt area is to being developed with 46,200 nos of trees. Green belt developed with tree density 2500 trees/hectare and local species.</p> <p><b>Green Belt Outside Plant in 10 Km area:</b></p> <p>Green belt outside the plant premises has been developed over 1137 Acres i.e. 74.8% against the EC condition of 33%.</p> <p>Green belt outside the plant premises is developed in forest land in proximity of the plant area in consultation with local forest department over 125 Acre land and Mangrove Plantation over 1012 Acre.</p> <p>The Green Belt Photos are attached in <b>Annexure 5</b>.</p>
iv	The CSR plan as submitted by the PP in the area of health care, rural infrastructure development, education, sports and cultural activity, Swachh Bharat Abhiyan with respect to the earlier projects and the ongoing project at Dolvi site are very slow in implementation. The CSR activities should be implemented	<p><b>Complied</b></p> <p>JSW foundation is the apex organization which is responsible for implementation of CSR activity in and around Dolvi works. JSW foundation is supported by JSW Steel Limited. CSR activities in various sectors are being done in the surrounding villages and a time bound</p>

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	<p>expeditiously and simultaneously with the implementation of the project, and annual report on CSR activity should be submitted to the Ministry.</p>	<p>action plan for various CSR activities have been submitted to MoEF&amp;CC as per EAC recommendation of 2.5% of project cost.</p> <p>An amount of Rs 16.33 Crores has been spent under CSR activities for 2024-25 (April 2024 to March 2025)</p> <p>The above amount has been spent on Social Development- (Education &amp; Training), Skill Development, Water and Sanitization, Agriculture, Rural Development, Health, Solid Wastes Management and Community Development.</p>
v	<p>At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent should prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector- wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head should be created and the annual capital and revenue expenditure on various activities of the Plan should be submitted as part of the Compliance Report to RO, at Bhopal. The details of the CSR Plan should also be uploaded on the company website and should also be provided in the Annual Report of the company.</p>	<p>CSR activities in various sectors are being done in the surrounding villages and a time bound action plan for various CSR activities have been submitted to MoEF&amp;CC as per EAC recommendation of 2.5% of project cost.</p> <p>The CER activities shall be implemented in accordance with Ministry's OM vide F.No.22 - 65/2017-IA III dated 1<sup>st</sup> May 2018 within the Project implementation period. A separate budget is incurred under CER activities, which are included in the Budget proposal. copy enclosed as <b>Annexure 6</b>.</p> <p>Amount spent on CER Activities is <b>Rs 119.86 Crores</b>.</p> <p>The above amount was spent on for construction of Multi-Speciality Hospital, Construction of Roads outside the plant premises, and expenditure on Tree plantation in nearby villages (outside the Plant).</p> <p><b>Hence the condition has been complied</b></p>

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vi	No development should be done on the creek-ward side of the land. Land area between HTL to 100 mts or width of the creek, whichever is less, on the landward side should be kept free from any type of development.	<b>Complied.</b> The project proponent has restricted Development of plant beyond 100 mtrs from HTL & kept the same free. The same was confirmed through Survey was carried out by IRS, Chennai.
vii	Full utilization of slag both BF and SMS should be implemented. The details should be submitted along with 6 monthly compliance reports.	Slag from BF is fully utilized in cement making and SMS slag is processed in metal recovery plant. The metallic portion is used in Sinter plant and briquette making, non-metallic portion is utilized in cement plant, Sinter plant and land reclamation. Presently, utilization achieved is approx. 98% due to various constraints at usage of slags. To further achieve 100% utilization of steel slag and strengthen the utilization, following activities are undertaken- 1) Study conducted by Central Road & Research Institute (CRRI) for Construction of Concrete road by using Steel Slag (EAF Slag) as aggregates. 2) Study conducted by Central Road & Research Institute (CRRI) for Construction of Tetrapod using EAF slag for Marine Application 3) Desk and Wave Flume study for utilization of Steel Slag (EAF Slag) in Marine Application by CSIR –CWPRS. Details of utilization of slag are submitted to regional Office of MOEF&CC with six monthly compliance.
viii	No waste water will be discharged outside the plant boundary during normal operation. In case it become necessary to discharge effluent meeting norms fit to the marine environment, permission of the relevant authority should be obtained.	<b>Complied.</b> We have obtained permission from MoEFCC – CRZ Division vide letter No F.No.11-7/2023-IA. III dated 5th April 2023( copy enclosed as <b>Annexure-9) for discharge of surplus treated water about 615 m3/hr. Surplus treated water conforming to the norms is discharged to Amba River Estuary within the permitted quantity.</b>



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ix	No untreated effluent should be reused for any process.	<p><b>Complied.</b></p> <p>Wastewater is treated in ETP and treated effluent is reused for industrial usage.</p>
x	Measures should be taken to reduce PM levels in the ambient air. Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. should be provided to keep the emission levels below 50mg/Nm <sup>3</sup> and installing energy efficient technologies in the Plant	<p><b>Complied</b></p> <p>Following measures have been taken to reduce PM levels in ambient air:</p> <ul style="list-style-type: none"> <li>• Stack of adequate height &amp; diameter with continuous stack monitoring facilities for all the stacks are provided, 46 nos of stacks are connected through OCEMS to CPCB and MPCB.</li> <li>• ESP (17nos) and Bag Filters (157nos), Cyclone &amp; Venturi Scrubber (06 nos), Dry Cyclone separator (01 no) are provided to control the PM emission from stacks within norm.</li> <li>• Raw Material handling area, yard sprinklers, dry fog system, Dust extraction systems provided to control the fugitive emissions. Constructed covered sheds for Raw Material storage purpose.</li> <li>• Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage</li> <li>• Covered shed for Jetty yard-B with a total capacity of 305,000 MT for Iron Ore and Flux.</li> <li>• Covered Sheds (2 Nos) for Pellet and Coke Storage of Capacity-1,20,000 MT each.</li> <li>• Covered shed for storing Iron Ore Bearing Material and Flux of Capacity 4,27,000 MT</li> </ul> <p><b>Environmental Benefits of Covered Shed:</b></p> <ul style="list-style-type: none"> <li>• No fugitive emission during handling of material</li> <li>• No water contamination during rains</li> <li>• No spillage of material on roads</li> </ul>

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	<ul style="list-style-type: none"> <li>• Covered storage shed prevents dust emission in the environment during operation of the yard.</li> <li>• Total expenditure on covered shed will Rs 320 Crores</li> <li>• Investment on Yard sprinklers, De-dusting system and Dry fogging system Rs 77.29 Crores</li> <li>• Top gas recovery turbine from Blast furnace and Gas Based power plant.</li> <li>• Energy efficient technologies provided in the Plant like waste heat recovery system, <ul style="list-style-type: none"> <li>• Sinter plant- 1 Boiler (7 TPH) Waste Heat Recovery</li> <li>• Sinter plant- 2 Boiler (20 TPH) Waste Heat Recovery</li> <li>• Coke Oven -2 Boiler (9.2 TPH) Waste Heat Recovery</li> <li>• Coke Oven -2 Boiler (5.2 TPH) Waste Heat Recovery</li> <li>• Coke Oven -2 CD Boiler (5.2 TPH) Waste Heat Recovery</li> <li>• Steel Melting Shop-2 Boiler (74 TPH) Waste Heat Recovery</li> <li>• Coke Dry Quenching (CDQ) Boiler-1 (72 TPH) Waste Heat Recovery</li> <li>• CDQ Boiler -2 (94 TPH) Waste Heat Recovery</li> <li>• CDQ Boiler -3 (94 TPH) Waste Heat Recovery</li> </ul> </li> <li>• All internal roads are made by concrete.</li> <li>• Regular operation of Road Sweeping machines and water sprinkler on road.</li> <li>• Transfer of De-dusting system dusts and other secondary dusts generated from Pollution Control equipment by bulkers.</li> <li>• The transfer of raw material from Jetty to plant is 100 % through belt and pipe conveyors thereby eliminating any chances</li> </ul>
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**Compliance Report of Expansion of Integrated Steel Plant from 5 to 10 MTPA and Power Plant from 300 MW to 600 MW (Gas Based) of M/s JSW Steel Limited at Geethapuram, Village Dolvi, Tehsil Pen, District Raigarh in Maharashtra vide. Environmental Clearance Letter No J-11011/176/2013-IA-II(I) dated 25/08/2015 amendment dated 23/01/2018 for the period Oct'24 to Mar'25.**

		<p>of fugitive emission through transportation of material from outside plant to the raw material yard there by improving the Ambient Air Quality.</p> <p><b>Hence the condition has been complied.</b></p>
xi	<p>On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices. Gaseous emission levels including secondary fugitive emissions from all the sources should be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.</p>	<p><b>Complied.</b></p> <ul style="list-style-type: none"> <li>• Five numbers of online Continuous Ambient Air Quality Monitoring stations have been installed in consultation with MPCB. All these stations are connected to the server of MPCB and CPCB, and data is being transmitted online on real time basis for PM2.5, PM10, SO2, NOx &amp; CO</li> <li>• Photograph of one of the CAAQMS is enclosed as <b>Annexure- 8.</b></li> <li>• Continuous Emission Monitoring System (CEMS) for all the required stacks as per CPCB guidelines is installed on 46 nos of Stacks.</li> <li>• Adequate air pollution control devices including ESPs, Bag Filters, Cyclones and scrubbers have been provided to control gaseous emission levels and secondary fugitive emissions.</li> </ul>
xii	<p>Dust suppression system and bag filters should be installed to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points,</p>	<p><b>Complied.</b></p> <p>Raw Material Handling areas, yard sprinklers, Dry fogging system, dust extraction system provided in the junction houses and transfer points.</p> <ul style="list-style-type: none"> <li>• Dust suppression by dry fog systems / water spraying systems provided at Raw Material Handling Section (RMHS) and other applicable areas.</li> <li>• All conveyors and Junction houses of Raw Material Handling systems are closed system.</li> </ul>

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		<p>Details of covered shed for storage of Raw Material;</p> <ul style="list-style-type: none"> <li>• Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage</li> <li>• Covered shed for Jetty Yard-B with a total capacity of 305,000 MT for Iron Ore and Flux.</li> <li>• Covered Sheds (2 Nos) for Pellet and Coke Storage of Capacity-1,20,000 MT each.</li> <li>• Covered shed for storing Iron Ore Bearing Material and Flux of Capacity 4,27,000 MT</li> </ul> <p>In Steel melting shop, Blast Furnace, Lime Calcination Plants, Pellet Plant adequate de-dusting systems with ESPs, Dry Gas Cleaning Plant, Cyclones and Bag Filters provided.</p> <p><b>Hence the condition has been complied.</b></p>
xiii	Water consumption should not exceed as per the CREP standard prescribed for the steel plants. Additional water, if any, required for the plant project operations should be met from rainwater stored in rainwater harvesting structures.	<p><b>Complied.</b></p> <ul style="list-style-type: none"> <li>• The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants are implemented regarding specific water consumption. The specific water consumption for the year 2024 - 25 (April to March 2025) was 2.38 m<sup>3</sup>/t of crude steel which is well below the CREP recommendation of 5 m<sup>3</sup>/t.</li> <li>• Dry Gas Cleaning plant, a Best Available Technology installed in Blast Furnace. The traditional wet scrubbing process has high pressure drop due which the energy recovery is low (14 MW) but the bag filter has low pressure drop thus has high energy to recovery (36 MW), by using Dry GCP process the energy recovery has increase approx. of 22 MW, which has reduced specific water consumption.</li> <li>• Coke Oven Plant - a Best Available</li> </ul>

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		<p>Technology Coke Dry Quenching systems installed and recovered the sensible heat of red hot coke, reduce energy consumption and pollution and improve the quality of coke.</p> <p><b>Hence the condition has been complied</b></p>
xiv	<p>Rainwater harvesting scheme should be prepared so that the rainwater can be collected, re-used and may be used for ground water recharge. The concrete drains should be de-silted and regular supervision of the areas should be carried out so that blocking of drains may be avoided for quick discharge of rainwater. Efforts should further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement.</p>	<p><b>Complied.</b></p> <p>Rain Water collection system for utilization of rainwater for cooling water make-up has been implemented at 12 various buildings of Oxygen Plant, Coke Oven, Power Plant, MRSS and Admin.</p> <p>Rainwater Harvesting through Recharge bore-well is not feasible in the area as the water table is high being close to river and sea.</p>
xv	<p>All the effluents should be treated and reused for dust suppression/green belt development. No effluent should be discharged and 'zero' discharge should be adopted.</p>	<p><b>Complying with</b></p> <p>Presently, treated effluent is partially discharged to the Amba River Estuary as per the permission obtained from MoEFCC – CRZ Division vide letter No F.No.11-7/2023-IA. III dated 5th April 2023.</p> <p>As per EC condition, ZLD shall be installed after completion and implementation of 100% projects from environmental Clearance.</p> <p>The permission is obtained for discharge of treated water approximately 615 M3/Hr.</p>
xvi	<p>Full utilization of fly ash should be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash should be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding should be submitted to the Ministry's Regional Office at Bhopal.</p>	<p><b>Not Applicable.</b></p> <p>The Captive Power are gas based, hence Fly Ash is not generated in the process.</p>
xvi i	<p>Hazardous materials required during construction phase and in plant operations</p>	<p><b>Complied.</b></p> <p>Hazardous wastes generated from the plant is</p>

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	should be stored properly as per the regulations and reused/recycled as per the E(P)A Rules.	stored in designated place and disposed to authorized recyclers as per the Hazardous Wastes (Management and Handling and transboundary) guidelines and MPCB consent conditions.
xvi ii	Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.	<b>Complied.</b> The vehicle and construction machineries PUCs are checked at Main gate before entering the plant. Electric vehicles are used in the transport pool for internal transportation inside the plant.
xix	Risk and Disaster Management Plan along with the mitigation measures should be prepared and implemented.	<b>Complied.</b> Risk & Disaster Management plan has been prepared and implemented through Dedicated department of Health and Safety.
xx	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	<b>Complying with</b> The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be complied as per the guidelines. The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants are implemented. <ul style="list-style-type: none"> <li>• Dry Gas Cleaning plant installed in Blast Furnace. The traditional wet scrubbing process has high pressure drop due which the energy recovery is low (14 MW) but the bag filter has low pressure drop thus has high energy to recovery (36 MW), by using Dry GCP process the energy recovery has increase approx. of 22 MW, which will reduce CO<sub>2</sub> emissions by approx. 1.4 Lac.tCO<sub>2</sub>eq. This system saves specific water consumption.</li> <li>• Installed Gas Holders (Coke Oven Gas and LD Gas) which helps the steady network flow for distribution of gas in constant pressure (Operating pressure 996 mmWC). Also it helps to proper utilization of waste gases. It saves CO<sub>2</sub> and Energy.</li> <li>• Coke oven plant – Tar sludge / ETP sludge are reused in the Coking process.</li> </ul>

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		<ul style="list-style-type: none"> <li>• Blast Furnace TRT – Energy recovery of top blast furnace gas is being done with power generation through TRT by using top pressure of BF gas.</li> <li>• Coke Oven Plant – Coke Dry Quenching systems (3 Nos) installed and recover the sensible heat of red hot coke, reduce energy consumption and pollution and improve the quality of coke. Each CDQ will reduce water consumption by 1920 m<sup>3</sup>/day and energy of 70 MW will be recovered along which will reduce the CO<sub>2</sub> emissions by approx. 10.9 Lac.t CO<sub>2</sub>eq</li> <li>• Steel Melting Shop (SMS), secondary de-dusting system (Gas Cleaning Plants 4 Nos) has been installed to control fugitive emissions</li> <li>• Coal Injection Plant for direct injection of pulverized coal in furnace has been implemented. Present rate of CDI in our Blast Furnace 1 is 155 Kg/THM and Blast Furnace 2 is 195 Kg/THM (average for the year 2023-24).</li> <li>• BF Slag- 100% utilized in Cement plant.</li> <li>• EAF slag- 100 % for construction activities for expansion projects by land filling in the low lying areas and is also being used for internal road making. Using EAF slag as aggregates for roads in National Highway (Concrete and asphalt roads)</li> <li>• Cast House Fume extraction system inclusive of tap holes, runners, skimmers, ladle and charging points have been provided to control Fugitive emissions from Blast Furnace.</li> </ul> <p><b>Hence the condition has been complied.</b></p>
xxi	All the commitments made to the public during public hearing/public consultation should be satisfactorily implemented and adequate budget provision should be made accordingly.	<p><b>Being Complied.</b></p> <p>Separate budget is maintained for implementing projects/ issues discussed during Public Hearing.</p> <p>CSR activities in various sectors are being done in the surrounding villages and a time bound action plan for various CSR activities have</p>

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		<p>been submitted to MoEF&amp;CC as per EAC recommendation of 2.5% of project cost.</p> <p>The project proponent has spent Rs 16.33 Crores under CSR activity for 2024-25 (April 2024 to March 2025)</p> <p>The above amount has been spent on Social Development- (Education &amp; Training), Skill Development, Water and Sanitization, Agriculture, Rural Development, Health, Solid Wastes Management and Community Development.</p>
xxi i	All the permanent workers should be covered under ESI Scheme. The company should have the provision for treatment of its workers at the local Nursing Homes & Hospitals in case of emergency. Annual Medical Check-up on some medical parameters like Blood test, Chest X-Ray, Eye test, Audiometry, Spirometry etc. should be conducted amongst the employees of the Company.	<p><b>Being Complied.</b></p> <p>As per the Factories Act, regular health check-up has been done for workers and employees &amp; records are maintained on regular basis.</p> <p>Annual Medical Check-up conducted for medical parameters like Blood test, Chest X-Ray, Eye test, Audiometry, Spirometry etc.</p>
	<b>B) General Conditions</b>	
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board and the State Government.	<p><b>Complying with</b></p> <p>Consent to Establish and Consent to operate received from Maharashtra Pollution Control Board (MPCB). The compliance is regularly monitored by MPCB.</p>
ii	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted and Shall be complied.
iii	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.	<p><b>Complying with</b></p> <p>5 Nos. online Ambient Air Quality Monitoring Station with consultation of MPCB &amp; data connected the same to MPCB &amp; CPCB Website.</p> <p>Six monthly compliance including ambient air quality is submitted to Regional Office at Nagpur.</p>



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iv	Industrial wastewater should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.	<b>Being Complied.</b> Waste water treatment facility is provided to treat the industrial effluent. Treated effluent is used in the coke slag quenching.  Treated Sewage from STP is used in plantation and green belt development.
v	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	<b>Complied.</b> Noise control measures are implemented like acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
vi	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	<b>Being Complied.</b> As per the Factories Act, regular health check-ups for workers and employees are carried out on regular basis.
vii	The company should develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	<b>Being Complied.</b> Rain Water collection system for utilization of rainwater for cooling water make-up has been implemented at 12 various buildings of Oxygen Plant, Coke Oven, Power Plant, MRSS and Admin.  Rainwater Harvesting through Recharge borewell is not feasible in the area as the water table is high being close to river and sea.
viii	The project proponent should also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	<b>Being Complied</b>
ix	Requisite funds should be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forests and Climate	<b>Being Complied.</b> Environmental expenditure for the year 2024-25 for operation and maintenance cost, Power cost, Treatment Cost for Pollution Control systems and Solid Waste Management are Rs

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	Change (MoEF&CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein should be submitted to the Regional Office of the Ministry at Nagpur. The funds so provided should not be diverted for any other purpose.	552 Crores. Expenditure of environment expanses are reported to Ministry and MPCB
x	A copy of clearance letter should be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter should also be put on the web site of the company by the proponent.	<b>Complying with</b> The project proponent has submitted a copy of clearance letter to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the local NGO. Acknowledgement copy of submission is enclosed as <b>Annexure-10</b>  The clearance letter is also uploaded to the JSW Steel web site.
xi	The project proponent should upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and should update the same periodically. It should simultaneously be sent to the Regional Office of the MOEFCC at Nagpur. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects should be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<b>Complied.</b> The project proponent has been uploading the status of compliance of the stipulated environment clearance conditions, including results of monitoring data on JSW Steel website on a six monthly basis. - Screenshot of website display enclosed as <b>Annexure- 11</b> .  The EC compliance report and Environmental monitoring reports (for Air, Water, Solid Waste and Hazardous wastes) are submitted to MoEFCC, CPCB, and MPCB on six monthly basis.- Copy of email enclosed as <b>Annexure-12</b> .  The CEMS data and CAAQMS data are displayed at the main gate.
xii	The project proponent should also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Nagpur / CPCB / SPCB should monitor the stipulated	we are submitting six monthly Environmental Clearance compliance reports and six monthly Environmental monitoring reports to Regional Office of MoEFCC, MPCB and CPCB.  <b>Hence the condition has been complied.</b>

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	conditions.	
xiii	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, should also be put on the website of the company along with the status of compliance of environmental conditions and should also be sent to the respective Regional Office of the MOEFCC at Nagpur by e-mail.	<b>Complied.</b> Environment Statement (Form-V) for 2023-24 submitted to MPCB, Compliance of Environmental Clearance is submitted to Regional Office of the MOEF&CC at Nagpur by e-mail.
xiv	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one should be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Nagpur.	<b>Complied.</b> We have Published the information of receipt of Environment clearance from MoEFCC in newspaper as per guidelines provided in Local newspaper Dainik Krushiwal, Raigad Times, Ramprahar dated August 30, 2015 and English newspaper Indian Express dated September 01, 2015. Copy of newspaper publication is enclosed as <b>Annexure-13.</b>
xv	Project authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	<b>Complied.</b> All the information of stages of development of projects are submitted to regional Office, MOEF&CC, Nagpur along with six monthly compliance report.
11	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
13	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act 1974,	• We are complying with The Water (Prevention and Control of Pollution) Act 1974

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<p>the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008 and the Public (Insurance) Liability Act 1991 along with their amendments and Rules.</p>	<ul style="list-style-type: none"> <li>• The Air (Prevention and Control of Pollution) Act 1981</li> <li>• The Environment (Protection) Act 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008 The Public (Insurance) Liability Act 1991 along with their amendments and Rules.</li> </ul> <p><b>Hence the condition has been complied.</b></p>
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## **Annexure 1**

### **Water Drawl Permission from Irrigation Department**

## Copy of all Water drawl permission letters    Annexure-3.2

### List of all Water drawl permission letters of JSWSL, Dolvi

Sn	Description	Permitted drawl quantity (in MLD)
1.	7.00 MLD (ARCL) WATER AGREEMENT	7.00
2.	9.00 MLD (JSW VILLAGERS) WATER AGREEMENT	9.00
3.	35.70 MLD (JSW) WATER AGREEMENT	35.70
4.	55.16 MLD (JSW) WATER AGREEMENT	55.16
5.	58.98 MLD (JSW) WATER AGREEMENT	58.98
<b>Total permitted quantity for drawl</b>		<b>165.84</b>

## **Annexure 2**

### **Photos of ETP at CPP 2 and BOD 1**



## Annexure-2 a



Pictorial view of Cooling tower chemical treatment at captive Power plant -2



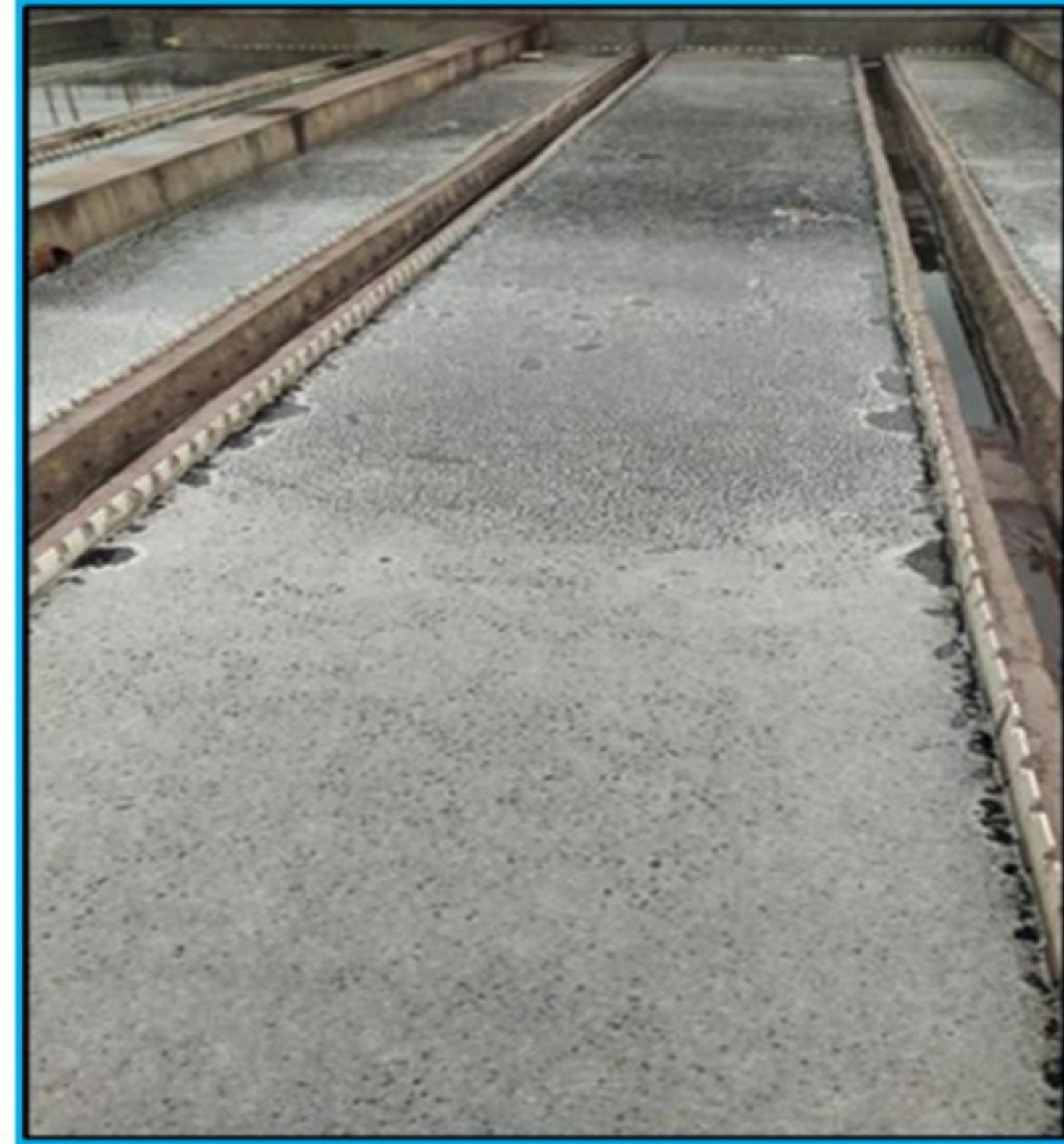
•Annexure-2 b



Pictorial view of BOD Plant Coke oven -1



•Annexure-2 b




Pictorial view of Aerobic and anoxic treatment of BOD Plant Coke oven -2

## **Annexure 3**

### **Screenshot of Continuous Emission Monitoring System**





Dashboard ▾

● Live Status ▾

Regulator Reports ▾Industry Reports ▾

⚠ Calibration ▾

Work Flow 

19

🔔

🔔

JSW\_D ▾

🔗 Site Status List / Real Time Report / Trends

JSW Steel Ltd. Dolvi Emission

📍 Dolvi , Maharashtra

🏭 R53 Iron & Steel

🔄 Refresh

🕒 Data Last Received On

🕒 Configuration Updated On

🕒 Calibration at

CEMS46

EQMS2

AAQMS5

Total Stations53

Live Readings

Emission


Effluent

Ambient

All ▾

Help ⓘ

55MW\_CPP\_Boiler




19.0 mg/Nm3

55MW\_CPP\_Boiler - NOx

15 MinsAvg: 19.27 mg/Nm3

Limit: 0 - 150.0 mg/Nm3 Range: 0 - 1000

●




0.17 mg/Nm3

55MW\_CPP\_Boiler - PM

15 MinsAvg: 0.19 mg/Nm3

Limit: 0 - 50.0 mg/Nm3 Range: 0 - 1000

●



0.0 mg/Nm3


55MW\_CPP\_Boiler - SO2

15 MinsAvg: 0 mg/Nm3

Limit: 0 - 250.0 mg/Nm3 Range: 0 - 1000

●

ARCL\_COP1\_CDQ1



NA mg/Nm3


ARCL\_COP1\_CDQ1 - PM

15 MinsAvg: NA mg/Nm3

Limit: 0 - 50 mg/Nm3 Range: 0 - 1000

⚠

ARCL\_PP1\_MESP




13.31 mg/Nm3

ARCL\_PP1\_MESP - PM

15 MinsAvg: 10.37 mg/Nm3

Limit: 0 - 150.0 mg/Nm3 Range: 0 - 1000

●



96.5 mg/Nm3

ARCL\_PP1\_MESP - SOx

15 MinsAvg: 107.57 mg/Nm3

Limit: 0 - mg/Nm3 Range: 0 - 1000

●

## **Annexure 4**

**ETP Photo – Blast Furnace 1**



## Annexure- 4



Pictorial view of Blast furnace – 1 ETP

## **Annexure 5**

### **Green Belt Photos**



## Green belt Development Near Main Gate

Plantation Near Goa Gate



Plantation Near Goa Gate



Green belt inside the plant



Green belt Near Main Gate





## Green belt Development

Green belt at Admin building and Gas Storage



Green belt at Internal Roads





Green belt around Temple within plant at Entry gate		
		

Green belt along internal roads		
		



Green Belt along Boundary Wall





Green belt at peripheral road



Green belt near Junction house/conveyor belt route



Green belt along conveyor belt route



Green belt at Sponge Iron Plant



Green belt at Gas receiving Station



Green belt at open area within plant





Green belt near LD Plant and internal road



Green belt at HSM Plant



Green belt near power Plant



Green belt in open area near Main Gate



Green belt at receipt and dispatch yard



Green belt around oxygen plant and rail track





## **Annexure 6**

### **Expenditure on Corporate Environment Responsibility (CER)**

## Annexure 6

### CER Details for five years (in Crores)

S. No	Programme	Program details	Total	2017-18	2018-19	2019-20	2020-21	2021-22
1	Health	Construction of a new Multi speciality Hospital Jindal Sanjeevani Dolvi Hospital (70 beds) located near the plant on the road to Wadkhal. The hospital will serve the healthcare needs of the local community and employees at affordable costs making healthcare accessible to the local community.	65	10	20	25	10	-
2	Water	Provision of drinking water to 45 villages along the makeup water line to the steel plant.	15	2	8	5		
		Construction of Rain Water Harvesting at roof top of nearby villages and nearby schools.	0.76	0.17	0.14	0.15	0.15	0.15
		Renovation of community ponds nearby villages	0.45	0.08	0.07	0.1	0.1	0.1
3	Infrastructure	Construction of internal village roads, pathways, Drainage and installation of solar street lights	16.35	1.75	3.4	3.6	3.8	3.8
4	Skill development	Supporting Infrastructure facilities at Industrial Training Institutes (ITIs) at Nagothae and Pen. JSW Skill school at Wadkhal, Pen for tailoring, fish, hand gloves, vegetable shop, other livelihood options.	8	1.5	1.25	1.75	1.75	1.75
5	Agricultural and Scientific support	Support of better farming practices, market linkages and create awareness about Agri allied business	4.25	0.65	0.9	0.9	0.9	0.9
6	Plantation	Mangrove plantation within 10 KM area from the plant. (345 Acres). Tree Plantation at Forest land of nearby plant area (Dolvi, Khakarav).	9	1.25	1.75	2	2	2

		Avenue Plantation at NH in the plant area.						
		<b>TOTAL</b>	<b>118.81</b>	<b>17.4</b>	<b>35.51</b>	<b>38.5</b>	<b>18.7</b>	<b>8.7</b>



## **Annexure 7**

**Minutes of Meeting – 4<sup>th</sup> Expert Appraisal Committee  
meeting of MoEFCC dated 25<sup>th</sup> February 2016**



**Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)**

**SUMMARY RECORD OF THE FOURTH (4<sup>th</sup>) MEETING OF EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF INDUSTRY-I SECTOR PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.**

The fourth meeting of the Expert Appraisal Committee (EAC) for Industry-I Sector in terms of the provisions of the EIA Notification, 2006 for Environmental Appraisal of Industry-I Sector Projects was held on 25<sup>th</sup> – 26<sup>th</sup> February, 2016 in the Ministry of Environment, Forest and Climate Change. Prof. Arun Pandey, Member of EAC has expressed his inability to attend the meeting due to prior departmental engagements. The list of participants is annexed.

After welcoming the Committee Members, discussion on each of the agenda items was taken up ad-seriatim.

**Confirmation of the minutes of the 3<sup>rd</sup> Meeting**

The minutes of the 3<sup>rd</sup> meeting, as circulated were confirmed.

**4.3 ENVIRONMENTAL CLEARANCE (EC)**

**4.3.1 Cement manufacturing unit of M/s Mehboob Cement Industries Pvt. Ltd. located at Village Wuyan Bala, Tehsil Pampore, District Pulwama, Srinagar, Jammu & Kashmir [J-11011/247/2015-IA.II(I)]**

The project proponent and their consultant made a presentation before the Committee. It was informed that the project is located at Village Wuyan Bala, Tehsil Pampore, District Pulwama, Srinagar. It is a green field project for the production capacity of 600 TPD cement. The proposal was initially submitted to State Environmental Impact Assessment Authority (SEIAA) on 18.01.2013 for grant of Terms of Reference (TOR), as per EIA Notification, 2006. Subsequently, the project was appraised by the SEIAA and ToRs were prescribed to the project on 23.02.2013.

The project proponent mentioned that the Dachigam National Park is located at a distance of 6.5 Km (Aerial distance) from the project site and the Dachigam National Park is in the buffer zone i.e. within the 10 km radius of the project site. The General Condition of EIA Notification, 2006 is applicable to the project; therefore, the proponent submitted the proposal to MoEFCC for appraisal.

During the discussions, the proponent was informed by the Committee that the Ministry *vide* amendment in EIA Notification, 2006 [SO No. 1599 (E) dated 25.06.2014], modified the provisions of the General Condition as, '*any project or activity specified in category 'B' will be appraised at the Central level as Category 'A', if located in whole or in part within 5 km. from the boundary of (i) Protected Areas notified under the Wildlife (Protection) Act, 1972 (53 of 1972); (ii) Critically Polluted areas as notified by the Central Pollution Control Board constituted under the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) from time to time; (iii) Eco-sensitive areas as notified under sub-section (2) of section 3 of the*



- xvi. The proponent shall prepare a detailed CSR Plan for every year for the next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.
- xvii. The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to bring into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
- xviii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- xix. The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.
- xx. The project proponent shall provide for LED lights in their offices and residential areas.

#### **4.5 ANY OTHER ITEM**

##### **4.5.1 Partial transfer of Environmental Clearance for 1MTPA Coke Oven Plant and 2.5 MTPA Coke Oven Plant from M/s JSW Steel Ltd to M/s Dolvi Coke Projects Ltd. located at Village Dolvi, Taluka Pen, District Raigad, Maharashtra regarding amendment in Environment Clearance (F.No. J-11011/76/2013-IA.II(I))**

The Environmental Clearance to the project of 3.0 MTPA to 5.0 MTPA Integrated Steel plant at Village Dolvi, Taluka Pen, District Raigad in Maharashtra was accorded *vide* letter J-11011/166/2011-IA-II (I) dated 21<sup>st</sup> November 2012 to M/s JSW Steel Ltd and further expansion of its project up to 10 MTPA was accorded environmental clearance *vide* letter J-11011/76/2013-IA II (I) dated 25<sup>th</sup> August 2015.

It has been explained by the project proponent that the expansion projects up to 5 MTPA have been established. The existing steel plant is based on the Direct Reduced Iron (DRI) - Blast Furnace-CONARC - Continuous Casting – Rolling Mill (CSP) route. The expansion is based on proven BF - EAF route.



The project proponent mentioned that the environment clearance for steel plant up to 5 MTPA includes 1.0 MTPA recovery type Coke Oven. Further, the environment clearance up to 10 MTPA plant includes 2.5 MTPA recovery type coke oven plant. It is proposed to combine the Coke Ovens of 1.0 MTPA and 2.5 MTPA, which are part of the earlier ECs as mentioned above into a single 3.5 MTPA Coke Oven plant in same location under 5 MTPA to 10 MTPA expansion project. By combining both the Coke Ovens into one the pollution load and other resource requirement like water will not increase; however the land requirement and Capital Cost will be optimized for setting up a single Coke oven in-place of setting up two small and separate coke ovens. Also this will have varied and distinct advantages in terms of lower land foot print with compact design for better operational and maintenance practices and logistics for handling coal and coke.

Total project cost of the coke oven plant of 3.5 MTPA will be Rs 2520 Crores. In order to optimize the capital expenditure, it is proposed to outsource the establishment and operations of the Coke Oven facility. The 3.5 million ton Coke Oven will be established and operated by an Associate Company, called Dolvi Coke Projects Limited and JSW Steel will be the largest shareholder of the SPV. JSW Steel Ltd. will sign the take or pay agreement from the associate company. This arrangement will help JSW to optimize the requirement of capital expenditure for setting up 10 Million ton capacity at Dolvi Works.

The project proponent further mentioned that while granting the environmental clearance for the expansion project, Ministry *vide* its specific condition No (iii) stipulated that '*The commitment made by the PP for plantation of the green belt to the tune of 655 acres should be expedited. Three rows of green belt, 12-15 meters wide, all along the periphery of the plant should be planted*'. The project proponent mentioned that they are in the process of developing green belt with three tier plantation along the periphery and avenue plantation along the internal roads inside the premises. JSW Steel Ltd. is fully committed to comply with the 33% green belt requirement. However, it is becoming difficult to get continuous land at Dolvi, Taluka Pen, District Raigad to comply with 33% green belt cover along the periphery premises. Therefore, the project proponent requested to grant permission for plantation in nearby areas in degraded private/ Government land outside the plant premises in coordination with District Revenue/ Forest Department, Raigad, Maharashtra or plantation in line with the condition stipulated by the Maharashtra Pollution Control Board in its Consent to Operate, which states "The applicant shall bring minimum 33% of the available open land under green coverage / plantation".

Regarding CSR related activity the project proponent mentioned that EAC on 26<sup>th</sup> March, 2015, directed to allocate 2.5% of the total project cost to be spent on CSR activities, which includes 2% of the annual profit as provided in clause No 135 of the Companies Act 2013. Accordingly, the CSR plan of 10 years was submitted to MoEFCC and was accepted. However while granting the environmental clearance, an amount equivalent to 5% of the total cost of the project to be earmarked towards the Enterprise Social Commitment (ESC) based on local needs, has been mentioned as per the specific conditions, point no (v), of the EC dated 25.08.2015. The project proponent requested to consider the CSR plan of 2.5% of the project cost as submitted.

Based on the presentation made and discussions held in detail, the Committee opined as under:



- (i) Regarding combining of the two Coke Oven plants of 1.0 MTPA and 2.5 MTPA, which were part of earlier ECs, into a single 3.5 MTPA Coke Oven plant in the same location under 5 MTPA to 10 MTPA expansion project to be operated by their Associate Company, called Dolvi Coke Projects Limited is an administrative decision to be taken by the Ministry. However, as there is no provision in the notification for partial transfer of the environment clearance, the Committee has; therefore, deferred decision in the matter and referred matter to Ministry.
- (ii) Regarding plantation, the Committee agreed to the submission of the project proponent and recommended the proposal of plantation in nearby areas in degraded private/ Government land outside the plant premises in consultation and coordination with District Revenue/ Forest Department, Raigad, Maharashtra.
- (iii) With regard to reconsideration of CSR budget, the Committee recommended to revise the condition for 2.5% of the total cost of the project for CSR instead of 5%.

**4.5.2 Expansion of Steel Plant by M/s Drolia Electrosteels Private Limited, located at Siltara, Block Dharsiwa, District Raipur, Chhattisgarh [F. No. J-11011/386/2008-IA-II (I)]**

The above proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) during its 33<sup>rd</sup> meeting held on 10<sup>th</sup> -11<sup>th</sup> February, 2015. The Committee after deliberations recommended for extension of validity of environment clearance for a period of 5 years with effect from 15<sup>th</sup> December, 2013.

However, in the meantime an amendment in the EIA Notification, 2006 was issued by the Ministry vide Gazette Notification No. S.O. 1141(E) dated 29<sup>th</sup> April, 2015, extending the period of validity of Environment Clearance from 5 years to 7 years. Therefore, the environment clearance accorded to the Project vide letter No. J-11011/386/2008-IA-II (I) dated 15.12.2008 stands valid upto 14.12.2015. Therefore a communication was sent to the project proponent that in case of seeking further extension of environment clearance beyond 14.12.2015, an application as per the provisions of EIA Notification, 2006 as amended may be submitted afresh by online to the Ministry.

The project proponent *vide* online application No. IA/CG/IND/19892/2008 dated 29<sup>th</sup> September, 2015 requested for extension of validity of environment clearance dated 15.12.2008 for further period of 3 years.

The implementation status of the project as informed by the proponent is indicated below:

S. No.	Facility	Capacity	Facilities implemented	Yet to be Implemented
1	Sponge Iron (100tpdX2nos DRI kilns)	66000 TPA	66000 TPA	-
2	Semi Finished Steel billet & Ingot	166000 TPA	145200 TPA	20800 TPA
3	Iron Ore beneficiation	200000 TPA		200000 TPA



## **Annexure 8**

### **Photograph of Continuous Ambient Air Quality Monitoring system**

## Annexure- 8



Pictorial view of Continuous ambient air quality monitoring station

## **Annexure 9**

### **CRZ Clearance obtained from MoEFCC for Marine Effluent Discharge**



**F.No.11-7/2023-IA.III**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**IA-III Section (CRZ)**

Indira Paryavaran Bhawan  
Jor Bagh Road  
New Delhi - 110003  
Dated: 5<sup>th</sup> April, 2023

**To**

**M/s JSW Steel Ltd**  
**Dolvi, Geetapuram**  
**District Raigad**  
**Maharashtra – 402107**

*Email: anand.rai@jsw.in*

**Subject: Installation of Discharge of Treated Effluent System from Integrated Steel Plant at JSW Steel Ltd into Amba Estuary at Dolvi, Taluka Pen, District Raigad, Maharashtra by M/s JSW Steel Ltd - CRZ Clearance - regarding.**

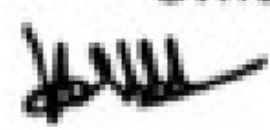
Sir,

This has reference to your proposal No. IA/MH/CRZ/288138/2022 dated 5<sup>th</sup> January, 2023 on the above mentioned project proposal for CRZ Clearance, in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for CRZ Clearance to the project for Installation of Discharge of Treated Effluent System from Integrated Steel Plant at JSW Steel Ltd into Amba Estuary at Dolvi, Taluka Pen, District Raigad, Maharashtra by M/s JSW Steel Ltd.

3. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building / Construction and Miscellaneous projects, in its meetings held on 17<sup>th</sup> January, 2023 and 7<sup>th</sup> February, 2023. The project proponent and their consultant made detailed presentation and informed as under:

- (i). The project located in Village Dolvi, Raigad at Latitude: 18° 42' 16.30" N and Longitude: 73° 01' 41.40" E. and activity located in CRZ IV(B) area.
- (ii). Length of pipeline from shore to outfall point is 118m. Width of excavation for pipe laying is 2.5m. Therefore, area of proposed activity is 295 Sq.m.
- (iii). M/s JSW Steel Ltd. has proposed to discharge treated effluent into Amba estuary in compliance to the specific condition no. iv of the environmental clearance amendment accorded by MoEFCC vide F. No. J-11011/76/2013-IA. II (I) dated 16<sup>th</sup> June 2020.
- (iv). The specific condition no. iv in the aforesaid amendment clearance states that "The project proponent shall achieve zero liquid discharge (ZLD) at the end completion of all the facilities. In the meantime, the treated wastewater shall be discharged into sea after obtaining necessary permission/ clearance from the concerned regulatory authority."
- (v). M/s JSW Dolvi executing expansion of its steelmaking capacity from 5 MTPA to 10 MTPA for which environmental clearance has been accorded by MoEFCC vide letter no J-11011/76/2013-IA II (I) dated 25<sup>th</sup> August 2015. Some facilities of the expansion program have been commissioned.
- (vi). Currently, the effluents generated from operating facilities are treated in individual effluent treatment plants and used in Coke and slag quenching. However, with





commissioning of facilities like Coke Dry Quenching, gas based boilers and power plants surplus treated water about 615 m<sup>3</sup>/h will be generated after commissioning of all facilities by December 2025.

- (vii). A comprehensive ZLD unit with RO systems and evaporators will be installed and commissioned by December 2025. The ZLD system will thus be functional by December 2025, ensuring 100% reuse of wastewater and zero liquid discharge.
- (viii). Maximum plume dispersion is expected to 310 m in worst case scenario (considering 1057m<sup>3</sup>/h) as per the effluent dispersion modelling study carried out by NIO.
- (ix). Fishing areas for the local fishermen are about 1000 m away from the proposed discharge location.
- (x). Based on marine studies it is recommended that the treated effluents of 1057 m<sup>3</sup>/h having density 1001 kg/m<sup>3</sup> generated by the M/s JSW steel plant, Dolvi, may be released at Lat: 18° 42' 16.30" N; Long: 73° 01' 41.40" E through four port diffuser.
- (xi). The diffuser specifications are recommended as follows: Inner diameter of ports = 0.1766 m, No of ports = 4, Port elevation from sea bed = 0.5 m, Angle of port = 15°, Minimum distance between ports = 4.0 m, Jet Velocity = 3.0 m/s.
- (xii). Treated effluents will be collected in the sump which will be located at south side of the plant boundary and will be pumped to Amba Estuary. The total maximum discharge water considered for study is 1,057m<sup>3</sup>/h. However, the planning for actual discharge is 615 m<sup>3</sup>/h. Type of pump - Vertical Centrifugal Pumps.
- (xiii). Discharge – Cross country pipeline laid along the existing conveyor feeding raw material to steel plant from M/s JSW Dharamtar Port. Final discharge location of treated waste water as per the location decided by NIO through waste water dispersion modelling study. Online effluent analyser provided and connected to MPCB & CPCB.
- (xiv). A comprehensive marine quality monitoring program shall include monitoring parameters of Water quality, Sediment quality and Flora & Fauna.
- (xv). Approximately 10 KLD water will be required for drinking and construction purpose which will be sourced from existing water supply system. The JSW Steel Ltd has water supply approved from Irrigation Department of Government of Maharashtra.
- (xvi). Approximately 6 kg/day of domestic solid waste is estimated to be generated from labour. The solid waste will be disposed to authorized recycler.
- (xvii). Treated effluents will be collected in the sump which will be located at south side of the plant boundary and will be pumped to Amba Estuary. The total maximum discharge water considered for study is 1,057m<sup>3</sup>/h. However the planning for actual discharge is 615 m<sup>3</sup>/h.
- (xviii). M/s JSW steel, Dolvi has been carrying out Mangrove plantation since 2016 by involving local women community. In 2016-2017 it has planted 105000 plants; in 2017-2018 it has planted 3,00,000 plants. In 2018-2019 around 3,00,000 mangroves plantation is planned and in 2019-2020 it will plant another 3,00,000 mangroves.
- (xix). The Baseline Monitoring Locations:

Monitoring location	Station no	Geographic Co-ordinates
Amba Estuary mouth	1	18° 49' 59.16"N; 72° 56' 39.48"E
Patalganga estuary mouth	2	18° 48' 40.26"N; 72° 58' 29.94"E
Ganeshpuri	3	18° 46' 09.42"N; 72° 59' 35.34"E

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RIL DP		
Dharamtar port	4	18° 45' 08.58"N; 72° 59' 06.48"E
Upper estuary	5	18° 42' 10.44"N; 73° 01' 42.60"E
Upper estuary	6	18° 36' 10.20"N; 73° 05' 08.82"E
Upper estuary	7	18° 32' 44.28"N; 73° 07' 46.26"E
Kasumata devi mandir	TS	18° 41' 43.00"N; 73° 01' 39.50"E

(xx). About 25 of employment likely to be generated by the project and estimated cost of the project is ₹22.3 Crores.

(xxi). The Maharashtra Coastal Zone Management Authority intimated that the route of pipeline falls largely in the CRZ III area, the pipeline falls at the river end in CRZ IB, CRZ IVB area and activity is a permissible as per CRZ Notification 2011. The Maharashtra Coastal Zone Management Authority has recommended the proposal for CRZ clearance vide its Letter No. CRZ 2020/CR86/TC4 dated 22/06/2022.

4. The Committee made detailed deliberation on the proposal. The Committee noted that the proposed discharge of treated effluent and the discharge system shall be discontinued post commissioning of ZLD system by 2025. The Committee also noted that the MCZMA recommended and intimated that the route of pipeline falls largely in the CRZ III area, the pipeline falls at the river end in CRZ IB, CRZ IVB area and activity is a permissible as per CRZ Notification 2011. The PP shall ensure that the treated effluent discharge into sea / marine outfalls as per the prescribed standards of by CPCB / SPCB. The Committee further also advised to PP forward immediately by e-mail to all EAC Members about the detail of the untreated and treated effluent quality of various parameters for the present effluent stream from the plant. The same has been submitted by PP vide e-mail / letter No. Nil, dated 07/02/2023 and same also circulated to all EAC members including MoEFCC and also accepted by EAC while approving the minutes.

The Committee after detailed deliberations and considering the submissions made by the project proponent recommended the proposal for CRZ Clearance, subject to certain terms and conditions.

5. Based on the recommendation of the Maharashtra Coastal Zone Management Authority and considering the submissions made by the project proponent, the Ministry of Environment, Forest and Climate Change, in acceptance of the recommendations of the Expert Appraisal Committee (CRZ), hereby accords CRZ Clearance to the project for **Installation of Discharge of Treated Effluent System from Integrated Steel Plant at JSW Steel Ltd into Amba Estuary at Dolvi, Taluka Pen, District Raigad, Maharashtra by M/s JSW Steel Ltd**, under the provisions of the CRZ Notification, 2019 and amendments thereto, subject to the compliance of terms and conditions as under:-

#### **PART A – SPECIFIC CONDITIONS:**

- All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011, as amended from time to time.
- The proposed discharge of treated effluent and the discharge system shall be discontinued post commissioning of ZLD system by the end of year 2025 and dismantling the pipeline and all the associated infrastructure.
- The monitoring plan should be prepared for the automated water quality after discharge of treated water into Amba estuary and six monthly monitoring reports should be submitted to Regional Office of MoEFCC.
- M/s JSW Steel Ltd. should comply with the effluent dispersion modelling study carried out by the NIO in January 2019 to predict the maximum dilution of the treated effluent around the point of discharge in Amba Estuary.

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- (v) M/s JSW Steel Ltd. should strictly ensure disposal of treated effluent discharge into Sea or marine outfalls to the prescribed standards of CPCB / SPCB.
- (vi) No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.
- (vii) Any temporary physical infrastructure setup and excavated material during laying of Pipelines shall not be dumped in water bodies or adjacent areas and the site shall be restored to its original condition after completion of construction of work.
- (viii) No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and/or operation phase of the project.
- (ix) Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.
- (x) All the conditions stipulated by the Maharashtra Coastal Zone Management Authority for CRZ clearance 2011 *vide* its Letter No. CRZ 2020/CR86/TC4 dated 22/06/2022 and commitments made by the PP before the MCZMA and EAC shall be followed in letter and spirit.
- (xi) All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.

**PART B - GENERAL CONDITIONS:**

- (i). Management of solid waste in accordance with the Solid Waste Management Rules, 2016 shall be strictly implemented.
- (ii). 'Consent to Establish' and /or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and / or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
- (iii). Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of Competent Authority.
- (iv). All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by Central / State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea / coastal water bodies. It shall be ensured that the wastewater generated is treated in the STP as committed by the project proponent. The treated waste water shall be reused for landscaping, flushing and / or HVAC cooling purposes etc. within the development. The project proponent should also make alternate arrangement for situation arising due to malfunctioning of STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.
- (v). Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- (vi). A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority / State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries Centre and Collector's Office / Tehsildar's Office for 30 days.

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- (vii). A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned Regional Office of this Ministry regarding the implementation of the stipulated conditions.
- (viii). The Ministry of Environment, Forest & Climate Change or any other Competent Authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (ix). Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.
- (x). In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (xi). The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non-compliance.
- (xii). All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective Competent Authorities.
- (xiii). The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <https://parivesh.nic.in/>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.
- (xiv). A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xv). The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.
- (xvi). The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the project proponent along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.

6. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

7. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said





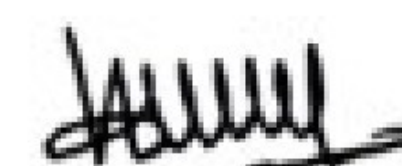
conditions in a time bound manner. The Ministry may revoke or suspend the CRZ clearance, if implementation of any of the above conditions is not found satisfactory.

8. 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.

9. Any appeal against this CRZ 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.

10. 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.

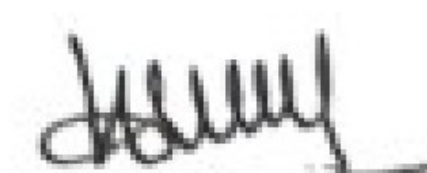
11. This issues with approval of the Competent Authority.



(Dr. H. Kharkwal)  
Scientist 'E' (CRZ)

**Copy to:**

1. The Principal Secretary, Environment Department, Government of Maharashtra, Annexe Building, Mantralaya, Mumbai- 400032, Maharashtra.
2. The Deputy DGF (C), MoEF&CC Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur- 440001, Maharashtra.
3. The Member Secretary, Maharashtra Coastal Zone Management Authority (MCZMA), Environment and Climate Change Department, 15<sup>th</sup> Floor, New Administrative Building, Mantralaya, Mumbai- 400032, Maharashtra.
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
5. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> Floor, Opp. Cine Planet, Sion Circle, Mumbai - 400022, Maharashtra.
6. Guard File / Monitoring File / Website / Record File.



(Dr. H. Kharkwal)  
Scientist 'E' (CRZ)



## **Annexure 10**

**Copy of letter submitted to Gram Panchayat for  
obtaining the Environmental Clearance as per EC  
Conditions**





**JSW Steel Limited**

Dohi Works : Geetapuram,  
Dohi, Taluka - Pen,  
Dist.: Raigad - 402107, Maharashtra, India.  
CIN. : L27102MH1994PLC152925  
Phone : +91 2143 277501-15  
Fax : +91 2143 277533/42  
Website : www.jsw.in

जेएसडब्ल्यू / डोलवी ग्रामपंचायत / इसी/२०१५

दिनांक : २९/०८/२०१५.

प्रती,  
माननीय सरपंच,  
ग्रामपंचायत डोलवी,  
ता. पेण, जि. रायगड.

**विषय : - वन व पर्यावरण मंत्रालय नवी दिल्ली यांचेकडून प्रकल्पविस्तारास पर्यावरणाचा ना हरकत प्रमाणपत्र प्राप्त झाल्याचे कळविणेबाबत.**

महोदया,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी, ता. पेण, जि. रायगड या प्रकल्पाला भारत सरकार पर्यावरण, वन आणि क्लायमेट चेंज मंत्रालय (आय. ए. विभाग), पर्यावरण भवन, जोर बाग रोड, अली गंज, नवी दिल्ली ११० ००३ यांच्याकडून दिनांक २५.०८.२०१५ रोजी एकीकृत लोह उत्पादन क्षमता पाच मेट्रीक टन प्रतिवर्षापासून दहा मेट्रीक टन विस्तारासहीत आणि ३०० मेगावॅट पासून ६०० मेगावॅट वायु आधारीत ऊर्जा प्रकल्प विस्तारास पर्यावरणाचा नाहरकत प्रमाणपत्र प्राप्त झाले आहे.

सदरच्या प्रमाणपत्राची प्रत पर्यावरण, वन आणि क्लायमेट चेंज मंत्रालयामध्ये व त्यांच्या <http://moef.nic.in> या संकेत स्थळावर आणि महाराष्ट्र प्रदुषण नियंत्रण मंडळाकडे व कंपनीच्या [www.jsw.in](http://www.jsw.in) या संकेत स्थळावर पाहण्यासाठी उपलब्ध आहे.

सदरील नाहरकत प्रमाणपत्राची प्रत आपल्या माहितीसाठी सोबत सादर करित आहोत.

माननीयांस सविनय सादर.

आपला आभारी  
जेएसडब्ल्यू स्टील लिमिटेड डोलवी करीता

अरुण महादेव शिर्के  
डेप्युटी जनरल मॅनेजर (प्रशासन)

सोबत - नाहरकत प्रमाणपत्राची प्रत



Part of O. P. Jindal Group

प्रत मिळाली  
लेखनिक ३१/०८/२०१५  
ग्रामपंचायत, डोलवी, ता. पेण  
४:०५ PM

Regd. Office : JSW Centre,  
Bandra Kurla Complex,  
Bandra (East), Mumbai - 400 051  
Phone : +91 22 4286 1000  
Fax : +91 22 4286 3000















## **Annexure 11**

**Screenshot of EC Copy attached on the JSW Company  
Website**



[Company](#) [Products](#) [Projects](#) [Facilities](#) [JSW Shoppe](#) [JSW MI](#) [Blogs](#) [Sustainability](#) [CSR](#) [Digital Transformation](#)

Six-monthly EC Compliance Report (April 2024 to September 2024) for the Gorus Iron Ore Mine of M/s JSW Steel Ltd., Odisha	Download 
JSW Steel Ltd - Dolvi - Environment Statements 2023-24	Download 
JSW Steel Ltd - Dolvi - EC Compliance 3 MTPA from April to September 2024	Download 
JSW Steel Ltd - Dolvi - EC Compliance 5 to 10 MTPA Amendment - April to September 2024	Download 
JSW Steel Ltd - Dolvi - EC Compliance -3.5 MTPA Coke Oven II - April to September 2024	Download 
JSW Steel Ltd - Dolvi - EC Compliance - ISP Expansion 5 to 10 MTPA -April to September 2024	Download 
JSW Steel Ltd - Dolvi - EC Compliance 3 to 5 MTPA from April to September 2024	Download 
JSW Steel Ltd - Dolvi - Env Monitoring Report April to September 2024 - Phase 2	Download 
JSW Steel Ltd - Dolvi - Env Monitoring Report April to September 2024 - Phase I	Download 
ARCL Dolvi - Environment Monitoring Report April to September 2024	Download 
ARCL Dolvi - EC Compliance Report Pellet plant I - April to September 2024	Download 
ARCL Dolvi - EC Compliance Report Coke Oven plant I - April to September 2024	Download 
.	

## **Annexure 12**

**Mail Copy of last six monthly EC Compliance report  
submitted to MoEFCC**



Six Monthly Environment Clearance Compliance report and Environment Monitoring report of M/s JSW Steel Ltd., Dolvi, Taluka - Pen, Raigad District, Maharashtra for the period April to September 2024.

Covering...2024.pdf Annexure I...F.pdf Annexure II...F.pdf Annexure III...F.pdf Annexur...2024-F.pdf Annexur...2024-F.pdf Annexur...Dolvi.pdf Annexure VI...2.pdf



Satish Kumar Choudhary

To: [eccompliance-mh@gov.in](mailto:eccompliance-mh@gov.in)

Cc: [noraigad@mpcb.gov.in](mailto:noraigad@mpcb.gov.in); SRO Raigad 2 <[sroraigad2@mpcb.gov.in](mailto:sroraigad2@mpcb.gov.in)>; [westzonepcb@yahoo.com](mailto:westzonepcb@yahoo.com)

Reply Reply all Forward Sat 2024-11-30 10:43 AM

Covering Letter to MoEFCC f... 85 KB Annexure I - EC Compliance ... 3 MB Annexure II - EC Compliance ... 325 KB Annexure III - EC Compliance... 4 MB Annexure IV - EC\_2020 Com... 8 MB Annexure V -EC Compliance ... 5 MB Annexure VI Env Statement a... 604 KB

Show all 8 attachments (23 MB) Save all to OneDrive - JSW Download all

Ref: i) Environmental Clearance for 3 MTPA vide letter No J-11011/4/96-IA-II dated 31-12-1996.  
ii) Environmental Clearance for expansion of steel plant from 3 to 5 MTPA vide letter No J-11011/166/2011-IA-II(i) dated 21-11-2012.  
iii) Environmental Clearance for expansion of steel plant from 5 to 10 MTPA vide letter No J-11011/176/2013-IA-II(i) dated 25-08-2015.  
iv) Environmental Clearance for changes in configuration for proposed expansion of integrated steel plant from 5 to 10 MTPA vide letter No J-11011/76/2013-IA-II(i) dated 16/06/2020  
v) Environmental Clearance for 3.5 (1.0+2.5) MTPA Coke Oven and By-product plant - Transfer of Environmental Clearance accorded for 3.5 MTPA Coke oven plant and By-product plant located at Geetapuram, Dolvi from M/s. Dolvi Coke Projects Ltd. To M/s. JSW Steel Ltd vide EC Letter No F.No. IA-J-11011/497/2017-IA-II(i) dated 22/11/2021.

Dear Sir,

This has reference to the captioned subject and cited references. It is to inform that we are herewith submitting Six monthly compliance reports for the conditions stipulated in Environment Clearance for JSW Steel Ltd., Dolvi Works, Taluka - Pen, Maharashtra for the period April to September 2024 as per the following for your kind consideration.

- 1) Compliance of Environment Clearance for 3.0 MTPA steel plant – **Annexure I**
- 2) Environment Clearance for expansion from 3 to 5 MTPA integrated steel plant - **Annexure II**
- 3) Environment Clearance for expansion from 5 to 10 MTPA integrated steel plant of JSW Steel Ltd., Dolvi Works – **Annexure III**
- 4) Environment Clearance for changes in configuration for proposed expansion of integrated steel plant from 5 to 10 MTPA vide letter No J-11011/76/2013-IA-II(i) dated 16/06/2020 – **Annexure IV**
- 5) Environment Clearance for Transfer of EC accorded for 3.5 MTPA Coke oven plant and By-product plant located at Dolvi from M/s. Dolvi Coke Projects Ltd. To M/s. JSW Steel Ltd vide EC Letter No F.No. IA-J-11011/497/2017-IA-II(i) dated 22/11/2021– **Annexure V**
- 6) Environments Statement for Integrated Steel Plant at JSW Steel Ltd., Dolvi Works – **Annexure VI**
- 7) Environment Monitoring Report for the period April to September 2024 for plants under Phase 1 & 2 in **Annexure VII**

The copy of EC compliance report is also being uploaded in MoEF&CC portal <http://environmentclearance.nic.in>

Welcome to Environment

Addendum to the clarification dated 19th May 2022 on the applicability of EIA Notification 2006 for Educational Institutions Uploaded on 26/07/2022 Viewed 3854 times ; Registration of complaints through PARIVESH Uploaded on 31/05/2021 Viewed 6295 times ; Guidelines on Public consultation in respect of mining projects of certain categories being notified under the provisions of E.O. 1530

## **Annexure 13**

**Copy of Advertisement in local newspapers as per the  
EC Conditions**



## •Annexure- 13

Date - 1-09-2015

**JSW Steel Limited**  
Dolvi Works : Geetapuram,  
Dolvi, Taluka - Pen,  
Dist. Raigad - 402 107,  
Maharashtra, India.  
CIN : L37102MH1994PLC152925  
Phone : +91 2143 277501-15  
Fax : +91 2143 277533-42  
Website: www.jsw.in

**PUBLIC NOTICE**

Government of India, Ministry of Environment, Forest and Climate Change (I. A. Division), Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj, New Delhi - 110003 has accorded Environmental Clearance for Expansion of Integrated Steel Plant from 5 MTPA to 10 MTPA and Power Plant from 300 MW to 600 MW (Gas Based) to M/s. JSW Steel Ltd. at Geetapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra on 25th August, 2015.

The copy of this Environmental Clearance Letter is available with Maharashtra Pollution Control Board (MPCB) and at website of Ministry of Environment, Forest and Climate Change at <http://moef.nic.in> and company website [www.jsw.in](http://www.jsw.in)

Sd/-  
M/s. JSW Steel Ltd.  
Geetapuram, Village Dolvi,  
Tehsil - Pen, District Raigad,  
Maharashtra - 402 107.

Place : Dolvi  
Date : 27/08/2015

Regd. Office : JSW Centre, Bandra Kurla Complex, Bandra (East),  
Mumbai - 400 051, Phone : +91 22 4286 1000

**The Indian EXPRESS** Tue, 01 September 2015  
epaper editions epaper.indianexpress.c

**JSW PUBLIC NOTICE**

Government of India, Ministry of Environment, Forest and Climate Change (I.A. Division), Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj, New Delhi-110003 has accorded Environmental Clearance for Expansion of Integrated Steel Plant from 5 MTPA to 10 MTPA and Power Plant from 300 MW to 600 MW (Gas Based) to M/s JSW Steel Ltd. at Geetapuram, Village Dolvi, Tehsil pen, District Raigad in Maharashtra on 25th August, 2015.

The copy of this Environmental Clearance Letter is available with Maharashtra Pollution Control Board (MPCB) and at website of Ministry of Environment, Forest and Climate Change at <http://moef.nic.in> and company website [www.jsw.in](http://www.jsw.in)

Place : Dolvi  
Date : 27/08/2015

M/s. JSW Steel Ltd.  
Geetapuram, Village Dolvi,  
Tehsil-Pen, Dist- Raigad,  
Maharashtra-402 107

**JSW जाहीर सूचना**

भारत सरकार, पर्यावरण, वन आणि क्लाइमेट चेंज मंत्रालय (आय ए विभाग), पर्यावरण भवन, जोर बाग रोड, अली गंज, नवी दिल्ली ११०००३ यांच्याकडून मे. जे.एस.डब्ल्यू. स्टील लिमिटेड, गीतपूरम व्हज डोल्वी, ता. पेण, जि. रायगड, महाराष्ट्र यांना दि. २५.०८.२०१५ रोजी एकीकृत लोह उत्पादन क्षमता पाच मेट्रीक टन प्रतिवर्षापासून दहा मेट्रीक टन विस्तारासाठी आणि ३०० मेगावॅटपासून ६०० मेगावॅट वायू आधारित ऊर्जा प्रकल्प विस्तारास पर्यावरणाचे नाहकतेत प्रमाणपत्र प्राप्त झाले आहे.

संदर्भा प्रमाणपत्राची प्रत पर्यावरण, वन आणि क्लाइमेट चेंज मंत्रालयाकडे व त्याच्या <http://moef.nic.in> या संकेत स्थळावर आणि महाराष्ट्र प्रदूषण नियंत्रण मंडळकडे व कंपनीच्या [www.jsw.in](http://www.jsw.in) या संकेत स्थळावर पाहण्यासाठी उपलब्ध आहे.

स्थळ : डोल्वी  
दिनांक : २७.०८.२०१५

मे. जे.एस.डब्ल्यू. स्टील लिमिटेड,  
गीतपूरम, वाव-डोल्वी,  
ता. पेण, जि. रायगड,  
महाराष्ट्र ४०२ १०७.

Copy of newspaper publication for EC