

# **ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT**

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

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

**(Apr' 2025 to Sep'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 Raigad 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 Apr'25 to Sep'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	Noted

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	<p>along the West Coast of India. The nearest Airport is Mumbai (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 Facilities under 10 MTPA</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 Pellet Plant is 13 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 JSW Steel Ltd., out of which 3 MTPA plant is commissioned.)
	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 (5.72 MTPA)	11.	Conventional Slab Caster	Commissioned
	12.	Billet Caster	-	1x6 Strand			
	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 Cement Ltd.
					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.

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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, 14% green belt is developed over 88.26 ha land within the plant premises and balance 11.34 Ha (2%) green belt development is in progress. 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>JSWSL Dolvi has carried out plantations in 248.9 ha of land outside the plant area. Of this, 51.0 ha has been carried out in degraded forest areas with the assistance of Forest department and 197.9 ha of Mangroves and other plantations have been carried out in nearby village areas. Green belt development outside plant premises is 40 % of the land area. Hence, Condition is complied.</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	<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</p>

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	<p>at Dolvi site are very slow in implementation. The CSR activities should be implemented expeditiously and simultaneously with the implementation of the project, and annual report on CSR activity should be submitted to the Ministry.</p>	<p>Limited.</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>An amount of Rs 11.83 Crores has been spent under CSR activities for 2025-26 (April 2025 to Sep 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</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 pant 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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	also be provided in the Annual Report of the company.	
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</b> ) for discharge of surplus treated water about 615 m3/hr. Surplus treated

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		water conforming to the norms is discharged to Amba River Estuary within the permitted quantity.
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 OCMS 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> </ul>

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		<ul style="list-style-type: none"> <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 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,</li> <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> <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</li> </ul>
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		<p>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.</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, SO<sub>2</sub>, NO<sub>x</sub> &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> <p>Details of covered shed for storage of Raw Material;</p>

**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 Apr'25 to Sep'25.**

		<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 Technology Coke Dry Quenching systems installed and recovered the sensible heat of red hot coke, reduce energy</li> </ul>



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		consumption and pollution and improve the quality of coke. <b>Hence the condition has been complied</b>
xiv	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.	<b>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 bore-well is not feasible in the area as the water table is high being close to river and sea.
xv	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.	<b>Complying with</b> 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. As per EC condition, ZLD shall be installed after completion and implementation of 100% projects from environmental Clearance. The permission is obtained for discharge of treated water approximately 615 M3/Hr.
xvi	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.	<b>Not Applicable.</b> The Captive Power plants are by-product gas based, hence Fly Ash is not generated in the process.
xvii	Hazardous materials required during construction phase and in plant operations should be stored properly as per the regulations and reused/recycled as per the	<b>Complied.</b> Hazardous wastes generated from the plant is stored in designated place and disposed to authorized recyclers as per the Hazardous

**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 Apr'25 to Sep'25.**

	E(P)A Rules.	Wastes (Management and Handling and transboundary) guidelines and MPCB consent conditions.
xviii	Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.	<p><b>Complied.</b></p> <p>The vehicle and construction machineries PUCs are checked at Main gate before entering the plant.</p> <p>Electric vehicles are used in the transport pool for internal transportation inside the plant.</p>
xix	Risk and Disaster Management Plan along with the mitigation measures should be prepared and implemented.	<p><b>Complied.</b></p> <p>Risk &amp; Disaster Management plan has been prepared and implemented through Dedicated department of Health and Safety.</p>
xx	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	<p><b>Complying with</b></p> <p>The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be complied as per the guidelines.</p> <p>The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants are implemented.</p> <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> <li>• Blast Furnace TRT – Energy recovery of</li> </ul>

**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 Apr'25 to Sep'25.**

		<p>top blast furnace gas is being done with power generation through TRT by using top pressure of BF gas.</p> <ul style="list-style-type: none"> <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</p>

**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 Apr'25 to Sep'25.**

		<p>have been submitted to MoEF&amp;CC as per EAC recommendation of 2.5% of project cost.</p> <p>The project proponent has spent Rs 11.83 Crores under CSR activity for FY 2025-26 (April 2025 to Sep 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>
xxii	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>

**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 Apr'25 to Sep'25.**

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 bore-well 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	<b>Being Complied.</b> Environmental expenditure for the year 2024-25 for operation and maintenance cost, Power cost, Treatment Cost for Pollution

**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 Apr'25 to Sep'25.**

	Ministry of Environment, Forests and Climate 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.	Control systems and Solid Waste Management are Rs 552 Crores. Expenditure of environment expenses 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.	<p><b>Complying with</b></p> <p>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></p> <p>The clearance letter is also uploaded to the JSW Steel web site.</p>
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.	<p><b>Complied.</b></p> <p>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></p> <p>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></p> <p>The CEMS data and CAAQMS data are displayed at the main gate.</p>
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 /	<p>we are submitting six monthly Environmental Clearance compliance reports and six monthly Environmental monitoring reports to Regional Office of MoEFCC, MPCB and CPCB.</p> <p><b>Hence the condition has been complied.</b></p>

**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 Apr'25 to Sep'25.**

	CPCB / SPCB should monitor the stipulated 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	• We are complying withThe Water (Prevention and Control of Pollution) Act

**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 Apr'25 to Sep'25.**

	<p>(Prevention and Control of Pollution) Act 1974, 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>	<p>1974</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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