



Dolvi Works:
Geetapuram,
Dolvi, Taluka - Pen,
Dist. Raigad - 402 107. Maharashtra, India.
CIN : L27102MH1994PLC152925
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May 30, 2024

JSWSL/ENV/MoEFCC/2024

To

The Regional Officer,
Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ), Ground Floor,
East Wing, New Secretariat Building,
Civil Line, Nagpur-440001

Sub: Six monthly compliance report of CRZ Clearance 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.

Ref: CRZ Clearance for 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 vide MOEFCC Letter F. No. 11-7/2023-IA. III dated 5th April 2023.

Dear Sir,

With reference to above, please find enclosed herewith Six monthly compliance report of CRZ Clearance 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 at Dolvi, Tehsil Pen, District Raigad, Maharashtra.

Submitted for kind information & record please.

Thanking you,

Yours faithfully,
For JSW Steel Limited

Dr. Anand Rai
Vice President (Head - Environment)

- CC:** 1) The Director, MoEF&CC, CRZ Section, Indira Paryavaran Bhawan, Jor Bagh, Lodi Road, New Delhi-110003.
2) The Zonal officer, CPCB, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara-390 023, Gujarat.
3) The Regional Officer, MPCB, Raigad, Raigad Bhavan, CBD Belapur, Navi Mumbai



Compliance status of CRZ Clearance File No 11-7/2023-IA.III, issued dtd 05-04-2023 to JSW Steel Limited

Sr#	Condition	Status
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	Complied. Activity of disposal of treated effluent is 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.	Complied. Length and Area is as per CRZ NOC.
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 16th June 2020.	Complied. The treated effluent is being discharged at the location specified in the NOC.
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."	Complied. Treated wastewater is being discharged into sea with permission obtained from the Authority. The plan is ZLD is in process and shall be implemented by December 2025.
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 25th August 2015. Some facilities of the expansion program have been commissioned.	Complied. <ul style="list-style-type: none"> Most of the facilities of 10 MTPA expansion projects are commissioned except DRI-2, Plate Mill, CRM Complex, Galvanizing Complex, CRGO Line, Tin Plate Mill, Colour Coating Plant, 370 MW gas based CPP. Township is under implementation.
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 m3/h will be generated after commissioning of all facilities by December 2025.	Complied. <ul style="list-style-type: none"> Coke Dry Quenching, gas based boilers and power plants are implemented and effluent from these plants is being sent for marine discharge. Quantity of discharge is within the permitted quantity of 615 m3/hr.

Sr#	Condition	Status
		<ul style="list-style-type: none"> Copy of discharge data from flow meter is enclosed as Annexure-1
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.	Complied. The action plan is in line for commissioning of ZLD system by December 2025.
viii.	Maximum plume dispersion is expected to 310 m in worst case scenario (considering 1057m ³ /h) as per the effluent dispersion modelling study carried out by NIO.	Complied. <ul style="list-style-type: none"> The dispersion of plume is within the 310 m of worst case scenario as we are discharging only 615 m³/hr of treated effluent. The maximum plume dispersion of 310 m is in case of treated effluent discharge of 1057m³/hr.
ix.	Fishing areas for the local fishermen are about 1000 m away from the proposed discharge location	Complied. The Discharge location as identified and approved by MoEF&CC keeping safe distance of fishing is maintained for discharge point.
x.	Based on marine studies it is recommended that the treated effluents of 1057 m ³ /h having density 1001 kg/m ³ 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.	Complied. <ul style="list-style-type: none"> Diffuser system as per NOC is installed. Drawing of Marine discharge layout is enclosed as Annexure-2
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.	Complied Diffuser system is installed as per NOC.
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 ³ /h. However, the planning for actual discharge is 615 m ³ /h. Type of pump - Vertical Centrifugal Pumps.	Complied. <ul style="list-style-type: none"> Treated effluent is collected in a sump and Pumped with Vertical Centrifugal Pumps- 4 No + 1 SB Pumps. Photographs of sump and pump arrangement with flow meter is enclosed as Annexure-3.

Sr#	Condition	Status
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.	Online effluent analyser installed. The quality and quantity of effluent being discharge is recorded daily basis.
xiv.	A comprehensive marine quality monitoring program shall include monitoring parameters of Water quality, Sediment quality and Flora & Fauna.	Complied. Marine quality monitoring is done through National Institute of Oceanography (NIO).
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.	Complied.
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.	Complied. Solid Waste management during the construction and commission of the project is done by integrating with the existing Steel Plant management.
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 ³ /h. However the planning for actual discharge is 615 m ³ /h.	Complied. <ul style="list-style-type: none"> Treated effluent is collected in a sump and Pumped with Vertical Centrifugal Pumps- 4 No + 1 SB Pumps. Actual discharge is effluent is within the permitted quantity of 615 M³/Hr.
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.	Complied. Plantation of mangroves in consultation with local forest officers for allotment of area for mangrove plantation is in process.

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xix.	<p>The Baseline Monitoring Locations:</p> <table> <tr> <th>Monitoring location</th><th>Station no.</th><th>Geographic Co-ordinates</th></tr> <tr> <td>Amba Estuary mouth</td><td>1</td><td>18° 49' 59.16"N; 72° 56' 39.48"E</td></tr> <tr> <td>Patalganga estuary mouth</td><td>2</td><td>18° 48' 40.26"N; 72° 58' 29.94"E</td></tr> <tr> <td>Ganeshpuri</td><td>3</td><td>18° 46' 09.42"N; 72° 59' 35.34"E</td></tr> <tr> <td>RIL DP</td><td>4</td><td>18° 45' 08.58"N; 72° 59' 06.48"E</td></tr> <tr> <td>Dharamtar port</td><td>5</td><td>18° 42' 10.44"N; 73° 01' 42.60"E</td></tr> <tr> <td>Upper estuary</td><td>6</td><td>18° 36' 10.20"N; 73° 05' 08.82"E</td></tr> <tr> <td>Upper estuary</td><td>7</td><td>18° 32' 44.28"N; 73° 07' 46.26"E</td></tr> <tr> <td>Kasumata devi mandir</td><td>TS</td><td>18° 41' 43.00"N; 73° 01' 39.50"E</td></tr> </table>	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	RIL DP	4	18° 45' 08.58"N; 72° 59' 06.48"E	Dharamtar port	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	Complied.
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xx.	About 25 of employment likely to be generated by the project and estimated cost of the project is Rs. 22.3 Crores.	Complied.																											
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.	Complied. 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.																											

Sr#	Condition	Status
4	<p>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.</p>	<p>Complied.</p> <ul style="list-style-type: none"> Discontinue post commissioning of ZLD system by 2025- <i>Implementation of ZLD Scheme is under process, shall be completed by Dec 2025.</i> Route of pipeline falls largely in the CRZ III area, the pipeline falls at the river end in CRZ IB, CRZ IVB area- <i>Activity is a permissible as per CRZ Notification 2011</i> Treated effluent discharge into sea / marine outfalls as per the prescribed standards of by CPCB / SPCB- <i>Analysis report enclosed as Annexure-4.</i>
Part A	Specific Condition	
i.	All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011, as amended from time to time.	<p>Complied.</p> <p>All construction done as per EC and compliant to CRZ Notification, 2011</p>
ii.	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	<p>Complied.</p> <p>Implementation of ZLD Scheme is under process, shall be completed by Dec 2025.</p>
iii.	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	<p>Complied.</p> <ul style="list-style-type: none"> Comprehensive environment quality monitoring is carried out through NIO every six month for water quality after discharge of treated water into Amba estuary. Report is enclosed as Annexure-4.

Sr#	Condition	Status
iv.	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.	Complied. <ul style="list-style-type: none"> The discharge point is selected as per the modelling study done by NIO. The quantity of treated effluent discharge (limit- 615 m³/hr, actual discharge- 378 m³/hr) is well within/very less than the quantity of effluent discharge modelled by NIO i.e 1057 m³/hr.
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.	Complied. Analysis Report of Treated Effluent for marine discharge is enclosed as Annexure- Annexure-4.
vi.	No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.	Complied. There is no storage reservoir for sea water and only pipelines conveyance system is 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.	Complied. All the excavated material during laying of Pipelines was utilized within the Steel Plant premises.
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.	Complied. <ul style="list-style-type: none"> The water requirement of the pipeline project was met from the existing water permissions of JSW Steel Ltd. No ground water extracted to meet the water requirements during the construction and operation phase of the project.
ix.	Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.	Complied. No labour camp, machinery and material storage set up for CRZ project of pipeline installation for effluent discharge.

Sr#	Condition	Status
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.	Complied.
xi.	All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.	Complied. Environmental Clearance for discharge of treated effluent from MoEF&CC for the Steel plant and permission from MCZMA are obtained.
PART B	GENERAL CONDITIONS	
i.	Management of solid waste in accordance with the Solid Waste Management Rules, 2016 shall be strictly implemented.	Complied. <ul style="list-style-type: none"> Excavation waste during construction phase of the project was utilized within the existing Steel Plant project. Other domestic waste generation from the pipeline project is managed by integrating with the existing environment management plan of Steel Plant.
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	Complied CTO for Steel Plat of 10 MTPA includes Marine Discharge Project, copy of CTO of Steel Plant is enclosed as Annexure-5 .
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.	Complied. Excavation material/muck/debris generated during the construction phase is utilized for land levelling within the existing Steel Plant.

Sr#	Condition	Status
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	Complied. STP has been provided in existing plant. The treated sewage is reused for landscaping. Analysis report of treated sewage is enclosed as Annexure-6.
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.	Complied.
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.	Complied
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.	Complied. EC Compliance report is submitted to Regional Officer, MOEF&CC every June and December. Copy of email of last report submission in December 2023 is enclosed as Annexure-7.
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.	Agreed and Complied.

Sr#	Condition	Status
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.	Agreed and Complied.
x.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Agreed and Complied.
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	Agreed and Complied.
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	Not Applicable. Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. are Not Applicable as the activity area is out of the purview of these Acts.
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.	Complied. As per the CRZ Clearance conditions, the project proponent has done the advertisement in two local newspapers Navarashtra Raigad Marathi dated 12/04/2023 and Free Press Journal dated 12/04/2023 widely circulated in the region, for the CRZ Clearance. The copies of the advertisement are attached as Annexure-8.

Sr#	Condition	Status
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.	Complied. Copy of clearance letter is sent to concerned local administrative offices, copy enclosed as Annexure-9 .
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.	Complied. <ul style="list-style-type: none"> Compliance is submitted to RO, MoEF&CC on 01/12/2023, copy enclosed as Annexure-7. Compliance report is uploaded at Company Website- https://www.jswsteel.in/investors/jsw-steel-investor-information-environmental-clearances
xvi.	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, 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.	Complied. <ul style="list-style-type: none"> Environment Statement (Form-V) of 10 MTPA Steel Plant is submitted to MPCB and put on website which includes details of treated effluent sent for marine discharge. Copy of last submission of Form-V is enclosed as Annexure-10.
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.	Not Applicable. The project does not fall within the 10 Km of Boundary of sanctuary and National Park.
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.	Agreed and Complied.

Sr#	Condition	Status
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.	Agreed and Complied.
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.	Agreed and Complied.
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.	Agreed and Complied.
11	This issues with approval of the Competent Authority.	Agreed and Complied.

Annexure 1

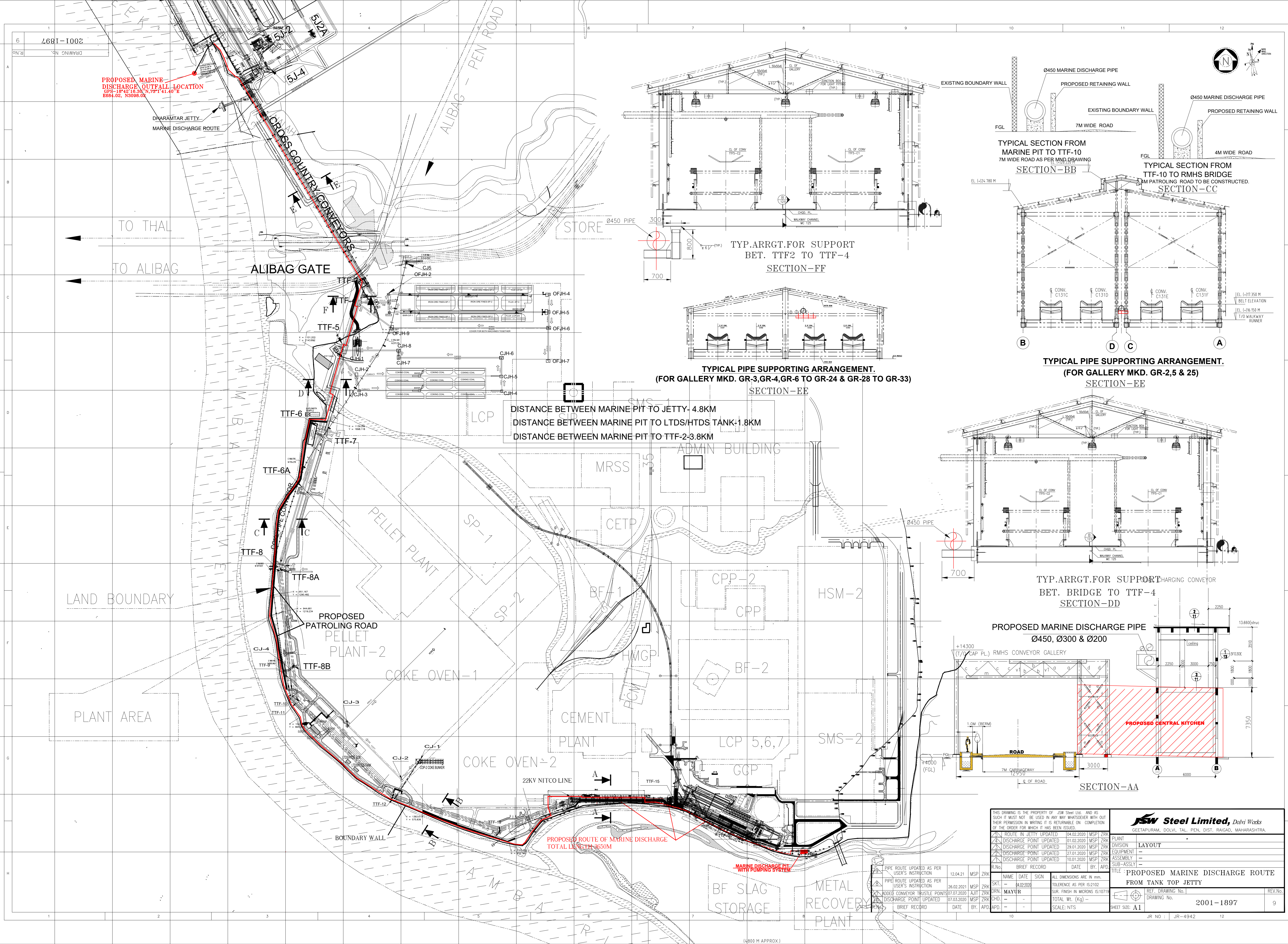
Copy of discharge data from flow meter

Annexure 1: Marine Discharge Details

DATE	TOTAL WATER DISCHARGE (m3/day)
1-Mar-24	9905
2-Mar-24	8610
3-Mar-24	7408
4-Mar-24	7846
5-Mar-24	7637
6-Mar-24	6741
7-Mar-24	7647
8-Mar-24	6296
9-Mar-24	8842
10-Mar-24	9268
11-Mar-24	7205
12-Mar-24	7385
13-Mar-24	5877
14-Mar-24	6244
15-Mar-24	6983
16-Mar-24	5355
17-Mar-24	5453
18-Mar-24	4759
19-Mar-24	5054
20-Mar-24	5971
21-Mar-24	7370
22-Mar-24	6358
23-Mar-24	6653
24-Mar-24	7275
25-Mar-24	8008
26-Mar-24	7420
27-Mar-24	6361
28-Mar-24	6568
29-Mar-24	7591
30-Mar-24	6615
31-Mar-24	7877
Average (m3/day)	7051
Actual (m3/hr)	294
Permission (m3/hr)	615

Annexure 2

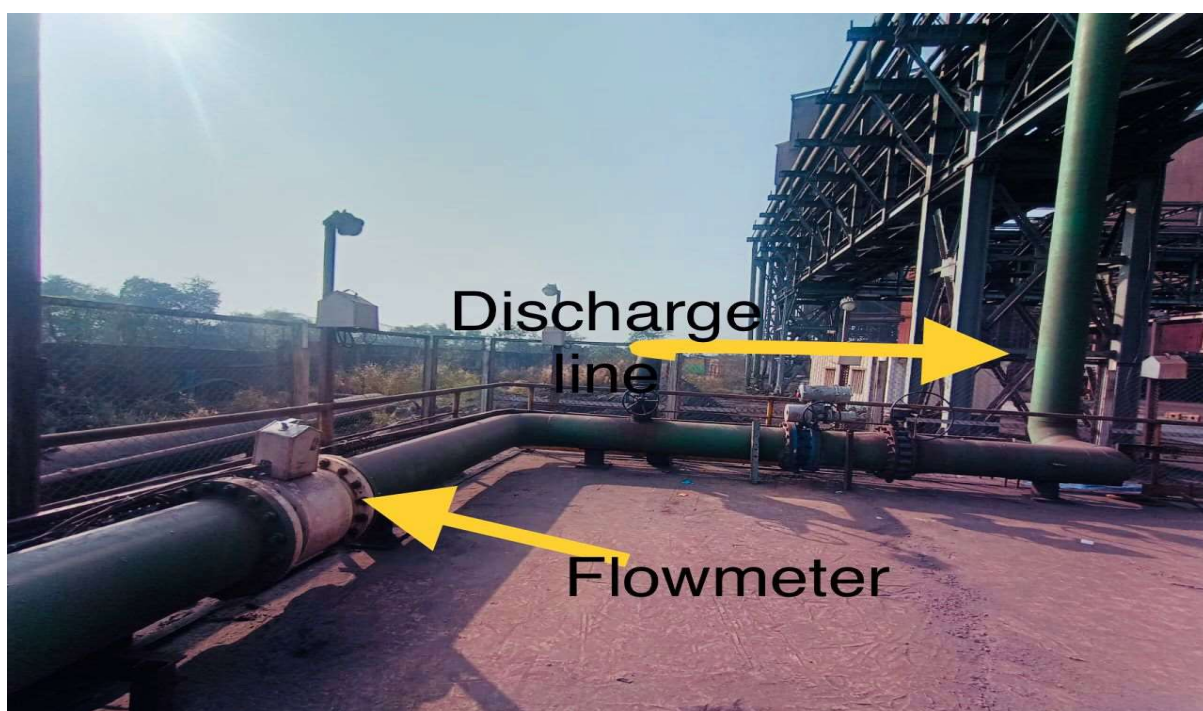
Drawing of Marine discharge layout



Annexure 3

**Photographs of sump and pump arrangement
with flow meter**

Marine Discharge Tank - Photographs



Annexure 4

**Treated effluent discharge into sea / marine
outfalls as per the prescribed standards of by
CPCB / SPCB- Analysis report**



Test Report No. INCHE24033830422085841

ULR No.: TC805724000013581F

Report Issue Date: 22 Apr 2024

TEST REPORT

Report Issued To: JSW Steel Limited

P.O. Geetapuram, Village: Dolvi, Raigad - Maharashtra, 402107, India

Discipline :	Chemical	Sample receipt date :	01 Apr 2024
Group :	Pollution and Environment	Date of registration :	01 Apr 2024
BV Sample ID :	1515819	Date of commencing of testing :	02 Apr 2024
Sample Name** :	MDP Water	Date of completion of testing :	18 Apr 2024
Physical Description :	Slightly turbid liquid		
Sample condition on receipt :	Good		
Sample quantity / Package :	1Ltr X 1No		

Sample Information: Sampling Done by Laboratory

Sampling procedure :	BVILCH/QMS/SOP-012	Date of sampling / collection :	28 Mar 2024
Sampling location :	JSW Steel Limited P.O. Geetapuram, Village: Dolvi, Raigad - Maharashtra, 402107.	Sampling / Collection done by :	Mr. Anitharaj

No.	Test Parameters	Unit	Test Results	Test Method	LOQ
1	pH Value	-	8.05	APHA 23rd Ed. 4500H+B	1
2	Total Suspended Solids	mg/L	16	APHA 23rd Ed. 2540 D	1
3	Oil and Grease	mg/L	BLQ	APHA 23rd Edition 2017 - 5520 O&G B	2
4	Bio-Chemical Oxygen Demand - 27°C/3 days	mg/L	6.2	IS 3025 Part 44 : 1993	1
5	Chemical Oxygen Demand	mg/L	57	APHA 23rd Edition 2017 - 5220 C	5
6	Ammonical Nitrogen as N	mg/L	BLQ	APHA 23rd Edn-4500 NH3 B,C	1
7	Nitrate Nitrogen	mg/L	8.6	IS 3025 (P-34): 1988	1
8	Copper as Cu	mg/L	BLQ	APHA 23rd Ed. 3120 B	0.05
9	Iron as Fe	mg/L	25.3	APHA 23rd Ed. 3120 B	0.05
10	Zinc as Zn	mg/L	1.01	APHA 23rd Ed. 3120 B	0.05
11	Phenolic compounds as C ₆ H ₅ OH	mg/L	BLQ	APHA 23rd Edition 2017 5530 B,C	0.01
12	Free Residual Chlorine	mg/L	BLQ	IS 3025 (P-26): 1986	0.1
13	Total Dissolved Solids	mg/L	1234	APHA 23rd Ed. 2540 C	1
14	Chloride as Cl ⁻	mg/L	306	APHA 23rd Ed. 4500-Cl B	1
15	Cyanide as CN	mg/L	BLQ	APHA 23rd Ed. 4500 CN C,E	0.01
16	Sulphate as SO ₄ ²⁻	mg/L	457	APHA 23rd Ed. 4500-SO4 E	2
17	Total Phosphates as P	mg/L	BLQ	APHA 23rd Edition 2017 - 3120 B	0.05

Abbreviations: LOQ: Limit of Quantification, BLQ: Below limit of quantification

** Indicates information supplied by the customer for which the laboratory has no control

Note: SAMPLE TESTED AS RECEIVED

Authorized Signatory

M. Ramesh

Manager



Sl. No.: 95538

Food_Report_INCHE2403383_(INCHE2403383-006)_v8.PDF



Test Report No. INCHE24033830422085841

ULR No. : TC805724000013581F

Report Issue Date: 22 Apr 2024

DISCLAIMERS:

(1.) All services are rendered in accordance with Bureau Veritas General Terms and Conditions of Service available at General terms & Conditions - BVIL. [https://www.bureauveritas.co.in/sites/g/files/zypfnx556/files/media/document/General Conditions of Service - June 2021-BVIL-revised.pdf](https://www.bureauveritas.co.in/sites/g/files/zypfnx556/files/media/document/General%20Conditions%20of%20Service%20-%20June%202021-BVIL-revised.pdf). (2.) The information marked with (**) customer provided information for which the laboratory has no control. (3.) The test report shall not be reproduced in full and/or in part or be used for any promotional and/or publicity purpose without the prior written approval of the issuing authority. The laboratory is not responsible for the authenticity of photocopied test report. (4.) The test result relate only to the item tested at the time and place of testing. (5.) Issuance of a test report of Analysis is NOT an indication that the item(s) is (are) fit for any specific purpose nor does it release any other party from their respective obligations. The maximum amount Bureau Veritas shall be liable for under any circumstance are the fees paid by the Client for the services provided under its contract with the Client for services delivered herein. (6.) The test item will not be retained for more than 15 days for non-perishable and 7 days for perishable samples from the date of issue of test report except in case as required by applicable regulation. (7.) Bureau Veritas owes no duty to any third party with respect to the results contained herein nor does Bureau Veritas accept any liability whatsoever with respect to the use by any third party of any information set out in this test report. Any third party relying on or using this report is responsible for exercising its own independent judgement with regard to the information contained herein and releases Bureau Veritas from any liability arising therefrom. (8.) The tests marked with (#) are subcontracted. (9.) This report is a computer-generated document with electronic signature, hence does not require manual signature. (10.) The statement of compliance / decision rule is based on 95% confidence level for the reported expanded uncertainty. (11.) The opinion and interpretations expressed in the report is based on the results obtained from the tested item. (12.) Sample on receipt to lab was "found to be fit" for analysis.

— End of Report —



Annexure 5

**CTO for Steel Plat of 10 MTPA includes Marine
Discharge Project**

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L.S.I (R53)
No:- Format1.0/CAC/UAN No.MPCB-
CONSENT-0000136178/CR/2303000522

Date: 08/03/2023

To,
JSW Steel Ltd - Integrated Steel Plant
Capacity 5 to 10 MTPA,
42,43,50,44,45,54,55,56,33,32,38,49,75,77,
139,142,etc of Dolvi Village, Geetapuram Dolvi,
Tal. Pen, Dist. Raigad



Your Service is Our Duty

Sub: Renewal of consent and amalgamation of two consent to operates for Billet Caster & Bar Mill and intergrated Steel Plant Phase-II with increase in CI under RED category

- Ref:**
- Existing Consent to operate for phase -II vide No Format 1.0/BO/CAC/UAN No. 108919/CO-2109000621 dated 17/09/2021 valid up to 30.04.2022
 - Another consent to operate for Billet caster & Bar Mill vide No. Format1.0/BO/CAC-Cell/UAN No. 0000024109-17/CAC-1802000263 dtd. 07.02.2018 valid up to 31.05.2022
 - Environmental Clarence granted by Government of India vide No. J-11011/76/2013-IA-II(I) dtd. 25.08.2015
 - Environmental Clarence granted by Government of India vide No. J-11011/76/2013-IA-II(I) dtd. 16.06.2020
 - Minutes of CAC meeting held on 09.02.2023

Your application No.MPCB-CONSENT-0000136178 Dated 09.04.2022

For: grant of Consent to Renewal under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent to renewal is granted for a period up to 30/04/2024**
- The capital investment of the project is Rs.19287 Crs. (As per C.A Certificate submitted by industry Existing Ci of the unit is Rs. 13430.19 Crs + 1027 Crs = 14457.19 Crs + increase in CI is Rs. 4829.81 Crs)**
- Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Calcinated Lime (LCP-5,6,7)	1800	Ton/D
2	Pellet (Pellet Plant-II)	9000000	MT/A

Sr No	Product	Maximum Quantity	UOM
3	Crude Steel/Steel slab (Steel Metal Shop-II)	6200000	MT/A
4	Hot Rolled Coil (Hot Strip Mill-II)	5000000	MT/A
5	Liquid Metal / Pig Iron (Blast Furnace-II)	4500000	MT/A
6	Power Generation	245	MW
7	Billets	1.5	MTPA
8	TMT Bar	1.4	MTPA
9	Electrical Power from Top gas recovery Turbine	37.25	MW

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	19265	As per Schedule-I	Partly recycle and remaining marine discharge
2.	Domestic effluent	258	As per Schedule-I	On land for gardening

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1	LCP Waste heat recovery system kiln - 5	1	As per Schedule -II
2	S-2	LCP Waste heat recovery system kiln - 6	1	As per Schedule -II
3	S-3	LCP Waste heat recovery system kiln - 7	1	As per Schedule -II
4	S-4	LCP LDE-1 Lime Dedusting System for Kiln Discharge	1	As per Schedule -II
5	S-5	LCP LDE-4 Lime Dedusting System for Product Storage Building	1	As per Schedule -II
6	S-6	LCP LDE-2 Stone Dedusting System for Kiln Feed	1	As per Schedule -II
7	S-7	LCP LDE-3 Stone Dedusting System for Junction House	1	As per Schedule -II
8	S-8	LCP LDE-5 Stone Dedusting System for Lime Stone	1	As per Schedule -II
9	S-9	Pellet II Process ESP	1	As per Schedule -II
10	S-10	Pellet II De-dusting ESP	1	As per Schedule -II
11	S-11	Pellet II Pellet Storage Bin	1	As per Schedule -II
12	S-12	SMS II Flare stack-1	1	As per Schedule -II
13	S-13	SMS II Flare stack-2	1	As per Schedule -II

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
14	S-14	SMS II Secondary De-Dusting System	1	As per Schedule -II
15	S-15	HSM-II Reheating Furnace	1	As per Schedule -II
16	S-16	HSM-II Reheating Furnace	1	As per Schedule -II
17	S-17	HSM-II Fume Exhaust	1	As per Schedule -II
18	S-18	BF-II Cast House De-Dusting System	1	As per Schedule -II
19	S-19	BF-II Stock House de-dusting System-1 Stack	1	As per Schedule -II
20	S-20	BF-II Stock House de-dusting System-2 Stack	1	As per Schedule -II
21	S-21	BF-II Stock House de-dusting System-3 Stack	1	As per Schedule -II
22	S-22	BF-II B.F. Stove Stack	1	As per Schedule -II
23	S-23	BF-II Coal Grinding System	1	As per Schedule -II
24	S-24	BF-II BF Gas Network Flare stack - 1	1	As per Schedule -II
25	S-25	BF-II BF Gas Network Flare stack - 2	1	As per Schedule -II
26	S-26	BF-II BF Gas Network Flare stack - 3	1	As per Schedule -II
27	S-27	BF-II BF Gas Network Flare stack - 4	1	As per Schedule -II
28	S-28	BF-II Slag Granulation Stack	1	As per Schedule -II
29	S-29	BF-II Pig Iron Granulation Plant Stack	1	As per Schedule -II
30	S-30	Power Plant 245 MW CPP Boiler	1	As per Schedule -II
31	S-31	Incineration Stack	1	As per Schedule -II
32	S-32	Billet Caster Ladle Heating Furnace	1	As per Schedule -II
33	S-33	Bar Mill Reheating Furnace	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Calcinated Lime Fines	69350	Ton/Y	Reuse	Used at Sinter Plant for Sinter Making
2	ESP and bag filter dust	20000	Ton/Y	Reuse	Used at Sinter Plant for Sinter Making
3	KR Slag	50005	Ton/Y	Reuse	Used in Cement Plant
4	LD Slag + Slag from SMS-II	1677520	Ton/Y	Reuse	Used in land development, Road making, Marine Structure & Sand

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
5	LHF /RHD Slag	50005	Ton/Y	Reuse	Used in Cement Plant
6	Bag filter dust	19929	Ton/Y	Reuse	Used at Sinter Plant for Sinter Making
7	Bolder Slag generation from Dry Pit	180000	Ton/Y	Reuse	Used in Cement Plant
8	HSM Sludge	102000	Ton/Y	Reuse	Used at Sinter / Pellet Plant
9	BF Dust Catcher Fines	174400	Ton/Y	Reuse	Used at Sinter Plant for Sinter Making
10	BF GCP Dust	33600	Ton/Y	Reuse	Used at Sinter Plant for Sinter Making
11	Cast house DE system Dust	5400	Ton/Y	Reuse	Used at Sinter Plant for Sinter Making
12	Stock house DE system Dust	5400	Ton/Y	Reuse	Used at Sinter Plant for Sinter Making
13	Slag generation from SGP + Granulated slag from BF	4109500	Ton/Y	Reuse	Used in Cement Plant
14	Scale	24911	Ton/Y	Reuse	Used at Sinter Plant for Sinter Making
15	Refractory Waste	29894	Ton/Y	Reuse	Used in SMS
16	SMS GCP Fines	100375	Ton/Y	Reuse	Used at Sinter / Pellet Plant
17	Tundish Skull	6077	Ton/Y	Reuse	Used in SMS
18	Ladle Skull	14600	Ton/Y	Reuse	Used in SMS
19	Metalic Scrap	60000	Ton/Y	Reuse	Used in SMS
20	Scales from Ladle heating furnace	30	Ton/D	Reuse	Reuse in the Sinter / Pellet Plant
21	Bar Mill Scales	35	Ton/D	Reuse	Reuse in the Sinter / Pellet Plant
22	Sludge from ETP (Bar Mill)	10	Ton/D	Reuse	Reuse in the Sinter / Pellet Plant

7. Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	250	KL/A	Recycle	Send to Authorized Recycler
2	5.2 Wastes or residues containing oil	12400	Kg/Annum	Incineration	Used as fuel in steel melting shop / Blast Furnace

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
3	Oil Filter	600	Kg/Annum	Incineration	Used in Furnace
4	Used Glass Wool	20	Ton/Y	Landfill	CHWTSDf
5	Copper Scrap	100	Ton/Y	Recycle	Send to Authorized Recycler

8. **Conditions under Plastic Waste Management Rules, 2016 (Notification dtd. 18/03/2016):**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	Plastic Waste	100.00	Ton/Y	Send to Authorized Recycler

9. **Conditions under E-Waste Management:**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	E-Waste	1.00	Ton/Y	Send to Authorized Recycler

10. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
11. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
12. By forfeiting proportionate BG of Rs. 5 Lakh towards JVS exceedance and imposing total BG of RS. 25 lakh towards operation and maintenance of pollution control system and compliance of consent conditions.
13. PP shall carry out total water budget / audit including water consumption effluent generation, quantity of effluent reuse and disposal, etc of all the integrated [plants and submit the report to the Board within 3 months.
14. PP shall restrict quantity of effluent discharge with the consent limit only. PP shall submit action plan about 100 % reuse of treated effluent.
15. PP shall provide monitoring system for Benzo(a) pyrene (Bap) parameter.
16. PP shall submit action plan for control of fugitive emission generated from coke oven battery section, coke pushing in coke oven and during quenching operation within a month.
17. PP shall comply with the recommendation of CREP.
18. PP shall comply the conditions of the Environmental Clearance conditions vide no. F.No.J-11011/76/2013-IA-II(I) dtd. 16.06.2020.
19. This Consent is issued subject to an order passed or may be passed by Hon'ble NGT in application no. OA. 165 of 2020
20. This consent is issued pursuant to the decision of the 14th Consent Appraisal Committee Meeting held on 09.02.2023
- . This consent is issued as per communication letter dated 03/11/2022 which is approved by competent authority of the board.



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Signed by: **Dr. Y.B.Sontakke**
Joint Director(WPC) & InCharge Of CAC-Cell
For and on behalf of,
Maharashtra Pollution Control Board
cac-cell@mpcb.gov.in
2023-03-08 17:06:04 IST



Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	75371456.00	MPCB-DR-11265	11/04/2022	NEFT
2	10636700.00	MPCB-DR-11266	11/04/2022	NEFT

As per previous consent dtd. 17.09.2021 Board has balance consent fees of Rs. 10,52,04,340/- and now they have paid consent fees of Rs. 8,60,08,156/-, i.e. Total fees paid is Rs. 19,12,12,496/-, Now applied with increase in CI by Rs. 4,829.81 Crs, hence required C to E fees is Rs. 96,59,620/- and consent is granted for two terms hence C to O fees for Ci Rs. 19287 Crs required is Rs. 7,71,48,000/-, i.e. total fees required is Rs. 7,71,48,000/- + Rs. 96,59,620/- = Rs. 8,68,07,620/-, now Board has Balance fees of Rs. 10,44,04,876/- (Rs. 19,12,12,496.0 - Rs. 8,68,07,620.0), which will be considered at the time of next renewal.

Copy to:

1. Regional Officer, MPCB, Raigad and Sub-Regional Officer, MPCB, Raigad II
 - They are directed to ensure the compliance of the consent conditions.
 - They are directed to forfeit the bank guarantee of Rs. 5 Lakh towards JVS exceedance
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CC/CAC desk for records and website updating purpose



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided 7 nos of Effluent Treatment Plants(ETP) with the total design capacity of 19391 CMD consisting of primary, Secondary treatment systems (Biological treatment), Chemical Neutralization Pit, Chemical dosing of cooling tower water etc for the treatment of 19265 CMD.
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Limiting concentration not to exceed in mg/l, except for pH
(1)	pH	6.0 to 8.5
(2)	Oil & Grease	10
(3)	BOD (3days 270C)	30
(4)	Total Dissolved Solids	2100
(5)	Ammonical Nitrogen	50
(6)	Suspended Solids	100
(7)	Chloride	600
(8)	Sulphate	1000
(9)	Nitrogen / Nitrate	10
(10)	COD	250
(11)	Free Available Chlorine	0.5
(12)	Copper (total)	1.0
(13)	Iron (Total)	1.0
(14)	Zinc	0.2
(15)	Phosphate	5.0
(16)	Cyanide as CN	0.2
(17)	Phenol	1

For Power Plants:

The Industrial effluents arising from various sections of power plant shall be given such treatment either collective or individually as the site condition permits that the final quantity of effluent shall have following character standards:

Sr. No.	Parameters	Limiting concentration not to exceed in mg/l, except for pH
For Condenser Cooling Water		
(1)	pH	Between 6.5 to 8.5
(2)	Temperature	Not to exceed 5°C than that of intake water temp.
(3)	Free available chlorine	Not to exceed 0.5
Boiler Blow Down		
(1)	Suspended Solids	Not to exceed 100

Sr. No.	Parameters	Limiting concentration not to exceed in mg/l, except for pH
(2)	Oil & Grease	Not to exceed 10
(3)	Copper (Total)	Not to exceed 1
(4)	Iron (Total)	Not to exceed 1
Cooling Tower Blow Down		
(1)	Free available chlorine	Not to exceed 0.5
(2)	Zinc	Not to exceed 1
(3)	Chromium (Total)	Not to exceed 0.2
(4)	Phosphate	Not to exceed 5
D.M. Plant Effluent		
(1)	pH	5.5 to 9
(2)	Suspended Solids	Not to exceed 100
(3)	Oil & Grease	Not to exceed 10
(4)	BOD 3 days	Not to exceed 30
(5)	COD	Not to exceed 250
(6)	TDS	Not to exceed 2100
(1)	pH	Between 6.5 to 9.0
(2)	Suspended Solids	Not to exceed 100mg/l
(3)	Oil and Grease	Not to exceed 10mg/l
(4)	pH	Between 6.5 to 8.5
(5)	DO	Not to exceed 5 mg/l
(6)	Temperature	Not to exceed 7 Degree Celcius (higher than intake water temperature)
(7)	Suspended Solids	Not to exceed 10%(above intake sea water SS Concentration)

C] As per EC conditions, project proponent shall achieve Zero Liquid Discharge (ZLD) at the end of completion of all the facilities, in the meantime 6065 CMD treated trade effluent shall be reused in the process and remaining 13200 CMD shall be discharge in to sea after confirming above standards and after obtaining necessary permission / clearance from concerned regulatory authorities. Till then PP shall achieve ZLD and shall not discharge the effluent outside the factory premises.

D] The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

- 2) **A] As per your consent application, you have provided STP of designed capacity 300 CMD for the treatment of 258 CMD of sewage.**

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

1	Suspended Solids	Not to exceed	50
2	COD	Not to exceed	100
3	BOD(3 days 270C)	Not to exceed	30

C] The treated sewage shall be utilized for gardening after confirming above standards. In no case, treated sewage shall be disposed of outside factory premises.

3) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters, and other provisions as contained in the said act:

<i>Sr. No.</i>	<i>Purpose for water consumed</i>	<i>Water consumption quantity (CMD)</i>
1.	Industrial Cooling, spraying in mine pits or boiler feed	88085.00
2.	Domestic purpose	300.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Grandening	7349.2

- 4) Prior permission shall be obtained from CGWA / irrigation department if ground Water/surface water is being used for industrial/Domestic purpose.**
- 5) The Board reserves its right to review plans,specifications or other data relating to plant setup for the treatment of water works for the purification thereof & the system for disposal of sewage or trade effluent or in the connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the board to take steps to establish the unit or establish any treatment or disposal system or and extension or addition thereto.**
- 6) The Applicant shall provide specific water pollution control system as per the condition of EP Act,1986, and rules made there under from time to time/ Environmental Clearance/ CREP guidelines.**

SCHEDULE-II**Terms & conditions for compliance of Air Pollution Control:**

- 1) As per your application, you have provided the Air pollution control (APC) system and erected following stack(s) and observe the following fuel pattern-

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO ₂
S-1	LCP Waste heat recovery system kiln - 5	Bag Filter	62	Mixed Gas (BG & COG)	13500 Nm3/hr	0.00	0.00
S-2	LCP Waste heat recovery system kiln - 6	Bag Filter	62	Mixed Gas (BG & COG)	13500 Nm3/hr	0.00	0.00
S-3	LCP Waste heat recovery system kiln - 7	Bag Filter	62	Mixed Gas (BG & COG)	13500 Nm3/hr	0.00	0.00
S-4	LCP LDE-1 Lime Dedusting System for Kiln Discharge	Bag Filter	35	NA	0 --NA--	0.00	0.00
S-5	LCP LDE-4 Lime Dedusting System for Product Storage Building	Bag Filter	35	NA	0 --NA--	0.00	0.00
S-6	LCP LDE-2 Stone Dedusting System for Kiln feed	Bag Filter	37	NA	0 --NA--	0.00	0.00
S-7	LCP LDE-3 Stone Dedusting System for Junction House	Bag Filter	30	NA	0 --NA--	0.00	0.00
S-8	LCP LDE-5 Stone Dedusting System for Lime Stone	Bag Filter	33	NA	0 --NA--	0.00	0.00
S-9	Pellet II Process ESP	ESP	100	NA	0 --NA--	0.00	0.00
S-10	Pellet II De-dusting ESP	ESP	50	NA	0 --NA--	0.00	0.00
S-11	Pellet II Pellet Storage Bin	Bag Filter	45	NA	0 --NA--	0.00	0.00
S-12	SMS II Flare Stack-1	Stack	77	Natural Gas + Mixed Gas	0 --NA--	0.00	0.00
S-13	SMS II Flare Stack-2	Stack	77	Natural Gas + Mixed Gas	0 --NA--	0.00	0.00
S-14	SMS II Secondary De-Dusting System	Bag Filter	98.5	NA	0 --NA--	0.00	0.00

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO ₂
S-15	HSM-II Reheating Furnace	Stack	82	Mixed Gas	0 --NA--	0.00	0.00
S-16	HSM-II Reheating Furnace	Stack	35	Mixed Gas	0 --NA--	0.00	0.00
S-17	HSM-II Fume Exhaust	Bag Filter	30.5	NA	0 --NA--	0.00	0.00
S-18	BF-II Cast house De-Dusting System	Bag Filter	70.8	NA	0 --NA--	0.00	0.00
S-19	BF-II Stock House de-dusting System-1 Stack	Bag Filter	71	NA	0 --NA--	0.00	0.00
S-20	BF-II Stock House de-dusting System-2 Stack	Bag Filter	45	NA	0 --NA--	0.00	0.00
S-21	BF-II Stock House de-dusting System-3 Stack	Bag Filter	45	NA	0 --NA--	0.00	0.00
S-22	BF-II B.F. Stove Stack	Stack	80	NA	0 --NA--	0.00	0.00
S-23	BF-II Coal Grinding System	Bag Filter	72.5	NA	0 --NA--	0.00	0.00
S-24	BF-II BF Gas Network Flare Stack - 1	Stack	53.5	NA	0 --NA--	0.00	0.00
S-25	BF-II BF Gas Network Flare Stack - 2	Stack	53.5	NA	0 --NA--	0.00	0.00
S-26	BF-II BF Gas Network Flare Stack - 3	Stack	53.5	NA	0 --NA--	0.00	0.00
S-27	BF-II BF Gas Network Flare Stack - 4	Stack	53.5	NA	0 --NA--	0.00	0.00
S-28	BF-II Slag Granulation Stack	Stack	27.5	NA	0 --NA--	0.00	0.00
S-29	BF-II Pig Iron Granulation Plant Stack	Stack	35	NA	0 --NA--	0.00	0.00
S-30	Power Plant 245 MW CPP Boiler	Stack	60	NA	0 --NA--	0.00	0.00
S-31	Incinerator Stack	Stack	30	NA	0 --NA--	0.00	0.00
S-32	Billet Caster Ladle heating Furnace	Fume Extraction system	80	Natural Gas	3000 Nm ³ /hr	0.00	0.00
S-33	Bar Mill Reheating Furnace	Stack	80	Mixed Gas (COG + BF Gas)	1045 Ton/D	0.00	0.00

- 2) The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.

A1. Coke Oven Battery - Emission	
Particulate Matter (PM)	50 mg/Nm ³
SO ₂	500 mg/Nm ³
NOx	500 mg/Nm ³
A2. Coke Oven - Visible Fugitive emission: PLD, PLL & PLO, %	
Leakage from doors - Percent Leaking Doors 5(PLD)	5
Leakage from charging lids -Percent Leaking Lids (PLL)	1
Leakage from AP covers - Percent Leaking Off takes (PLO)	2
Leakage from doors - Percent Leaking Doors (PLD)*	1
Leakage from charging lids -(Percent Leaking Lids (PLL)	NA
Leakage from AP covers - Percent Leaking Off takes (PLO)	NA
A3. Coke Oven - Fugitive emission: Charging emission duration, seconds	
BP Recovery type - top charging	30
BP Recovery type - stamp charging	50
Non-Recovery type	30
A4. Coke Oven - Fugitive emission: Benzo-a-Pyrene	
Top of the coke oven battery	5 µg/m ³
Other areas of coke oven plant	2 µg/m ³
B. Sintering and Pelletizing Plants - Main and secondary stacks emission	
Particulate Matter (PM)	50 mg/Nm ³
SO ₂	500 mg/Nm ³
NOx	500 mg/Nm ³
C1.Blast Furnace - Stove stack emission	
Particulate Matter (PM)	30 mg/Nm ³
SO ₂	250 mg/Nm ³
NOx	200 mg/Nm ³
CO	1% (max.)
C2. Blast Furnace -Cast house fume extraction system	
Particulate Matter (PM)	50 mg/Nm ³
D1. Basic Oxygen Furnace(BOF)/Energy Optimization Furnace (EOF)-Main stack emission*	
Particulate Matter (PM) - Normal operation	50 mg/Nm ³
Particulate Matter (PM) - Blowing and lancing	100 mg/Nm ³
SO ₂	500 mg/Nm ³
NOx	500 mg/Nm ³

D2. Basic Oxygen Furnace (BOF) / Energy Optimization Furnace (EOF) - Secondary refining process stack and Fume extraction system	
Particulate Matter (PM)	50 mg/Nm ³
E. Process Gas Based Power Plants / Boilers	
Particulate Matter (PM)	50 mg/Nm ³
SO ₂	300 mg/Nm ³
NOx	400 mg/Nm ³
F. Rolling Mills	
Particulate Matter (PM)	50 mg/Nm ³
SO ₂	300 mg/Nm ³
NOx	400 mg/Nm ³
G. Lime kilns, Dolomite kilns, Refractory units	
Particulate Matter (PM)	50 mg/Nm ³
SO ₂	400 mg/Nm ³
NOx	500 mg/Nm ³
H1. Coal based Sponge Iron Plant -Kiln / WHR Boiler stack emission**	
Particulate Matter (PM)	50 mg/Nm ³
CO	1% (max.)
H2. Gas based Sponge Iron Plant - Process gas heater stack emission	
Particulate Matter (PM)	50 mg/Nm ³
SO ₂	250 mg/Nm ³
NOx	200 mg/Nm ³
CO	1% (max.)
H3. Sponge Iron Plants (Coal/Gas) - De-dusting /Fumes extraction System	
Particulate Matter (PM)	50 mg/Nm ³
I. Electric Arc Furnaces	
Particulate Matter (PM)	50 mg/Nm ³
J. Induction Furnaces	
Particulate Matter (PM)	50 mg/Nm ³
K. Fugitive emissions	
PM 10 at 20 metre from sources	2000 µg/m ³

- 3) The internal roads shall be cement concrete and shall be maintained with adequate green belt.
- 4) The industry shall not cause any nuisance in surrounding area.
- 5) Industry shall install 24*7 online continuous emission monitoring system at process stack to monitor stack emissions as per CPCB guidelines and it's connectivity to CPCB & MPCB Servers. PP shall Calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

6) A) Control Equipment

The industry shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards.

1. Coal Handling Plant shall be provided with dust collector, complete dust extraction arrangement automatic water sprinkling with fog nozzles shall be provided wherever necessary for dust suppression. The following shall be taken care as follows
 1. Dust generation points machinery will be covered by hoods.
 2. Spraying of water as necessary at working area, dump area, stock piles etc
 3. Coal shall be properly covered during transportation.
 4. The applicant shall carry out tree plantation along road side.
 5. Black topping metalled/tarred/MBF slag mixed cement roads shall be provided and well maintained to prevent dust formation.
 6. Overloading of dumpers shall be avoided to prevent spillages.

B) Noise Levels Standards

1.00 AM – 10.00 PM

Noise level Leq 75 dB (9A)

10.00 PM – 6.00 AM

Leq 70 dB (A)

C) Fugitive Emission Standards

The fugitive emissions level of suspended particulate matter (SPM) should not exceed 2000 µg/m³. The applicant shall install de-dusting system at the following locations & monitor the fugitive emissions levels and submit report to the board monthly.

- a. The existing industry shall comply with the standard of 2000 µg/m³
- b. Fugitive emission shall be monitored at a distance 10 meters from the source of fugitive emissions as per following.

Sr. No.	Area	Monitoring Location
1.	Raw material handling area	Wagon tippler, Screen area, Transfer Points, Stock Bin area.
2.	Crusher area	Crushing plant, vibrating screen, transfer points.
3.	Raw material feed area	Feeder area, Mixing area, transfer points, days bins
4.	Cooler discharge area	Over size discharge area, Transfer points.
5.	Product processing area	Intermediate stock bin area. Vibrating screens, Magnetic Separation unit. Transfer Points, Over Size discharge area, Product separation area, Bagging area, hoppers/storage bins.

D) Raw Material handling and Preparation

- a. Unloading of coal by trucks or wagons should be carried out with proper care avoiding dropping of the materials from height. It is advisable to moist the material by sprinkling water while unloading.
- b. Crushing and screening operation should be carried out in enclosed area. Centralizes de-dusting facility (collection hood and suction arrangements followed by de-ducting unit like bag- filter or ESP or equally effective method or wet scrubber and finally discharge of emission through a stack) should be provided to control Fugitive Particulate Matter Emissions. Particulate Matter emission level in the stack should not exceed 100 mg/Nm³. Water sprinkling arrangement should be provided at raw material heaps and on land around the crushing and screening units.
- c. Work area surrounding the plant shall be asphalted or concreted.
- d. Enclosure should be provided for belt conveyors and transfer points of belt conveyors.

The above enclosures shall be rigid (and not of flexible/cloth type enclosures) and to be fitted with self-closing doors and close fitting entrances and exists. Where conveyors pass through the enclosures, flexible covers should be installed at entries and exit of the conveyors to the enclosures, minimizing the gaps around the conveyors. In wet system, provide water sprays/ sprinklers at following strategic location for dust suppression raw material transfer.

- Belt conveyors discharge / transfer point
- Crusher / screen discharge locations.

E) Cooler Discharge and Product Separation Unit.

Enclosure should be provided for belt conveyors and transfer points of belt conveyors. Dust extraction cum control system to be installed preferably bag filter or ESP or equally effective method to arrest product loss in Cooler Discharge and Product Separation area, the stack emission not be exceed 100 mg/Nm³. (Particulate Matter).

- F) Extensive plantation/ Green belt shall be developed along the roads and boundary line of the industry.
- G) Stack, effluent, fugitive emission, noise monitoring shall be done as per CPCB regulation and MPCB's consent conditions.
- H) Pollution control system shall be operated as an integral part of production to ensure minimum emissions. Pollution Control System shall start before conveyor operation/ operation of plant. Similarly pollution control system shall be stopped only after completion of conveyor operation/operation of plant so that chances of settlement of dust in duct are avoided. Timely evacuation of dust (from Dust catchers, ESPs, Bag filter hopper etc.) shall be routinely organized.

I) Kiln of gas treatment with efficient de-dusting shall be provided Waste heat utilization for power generation should be followed.

- 1) Provisions of Gas conditioning Tower followed by Pollution Control system for small capacity Kiln (size 100 TPD and below).
- 2) Entrepreneur having more than 100 TPD kilns shall use WHPB for generation of power.

Adequately designed ESP or Bag Filter or Wet scrubbing system or any other adequate air pollution control system / combination of system should be installed to achieve the prescribed stack emission standards.

J) The safely cap/emergency stack of rotary kiln type plant, which is generally installed above the After Burner Chamber (ABC) of feed end column should not be used for discharging untreated emission, by passing the air pollution control device.

In the midst of a process, the auxiliary stack cap which is generally kept closed, is opened only when,

- There is process disturbance and
- Non functioning of kiln off gas system

The above activity is carried out by manual intervention from the operation control desk of the PLC/DCS based automation system. It is recommend that stack cap to be kept open to minimum period of time and its opening must be recorded on a compulsory basis and reasons for opening must be logged and reported to MPCB. Further stack cap must be kept closed except.

- During startup, commissioning and bringing the kiln to stabilized operation.
- At the start of a fresh campaign
- In case of extreme emergency enumerated above.

SCHEDULE-III

Details of Bank Guarantees:

Sr. No	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to O	Rs. 25 Lakh	15 Days	O & M of pollution control systems	Continuous	31.10.2024

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
1	C to O	Rs. 25 Lakh	Submitted	O & M of pollution control systems	Rs. 5 Lakh	JVS exceedance

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

SCHEDULE-IV**General Conditions:**

1. The waste generator shall.-
 - a) take steps to minimize generation of plastic waste and segregate plastic waste at source in accordance with the Plastic Waste Management Rules, 2016 or as amended from time to time.
 - b) not litter the plastic waste and ensure segregated storage of waste at source and handover segregated waste to urban local body or gram panchayat or agencies appointed by them or registered waste pickers', registered recyclers or waste collection agencies;
2. All institutional generators of plastic waste, shall segregate and store the waste generated by them in accordance with the Plastic Waste Management Rules, 2016 amendment from time to time and handover segregated wastes to authorized waste processing or disposal facilities or deposition centers either on its own or through the authorized waste collection agency.
3. All waste generators shall pay such user fee or charge as may be specified in the byelaws of the local bodies for plastic waste management such as waste collection or operation of the facility thereof, etc.;
4. Every person responsible for organizing an event in open space, which involves service of food stuff in plastic or multilayered packaging shall segregate and manage the waste generated during such events in accordance with the Plastic Waste Management Rules, 2016 amendment from time to time.
5. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that e-waste generated by them is channelised through collection centre or dealer of authorised producer or dismantler or recycler or through the designated take back service provider of the producer to authorised dismantler or recycler
6. Bulk consumers of electrical and electronic equipment listed in Schedule I shall maintain records of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board
7. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that such end-of-life electrical and electronic equipment are not admixed with e-waste containing radioactive material as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and rules made there under;
8. Bulk consumers of electrical and electronic equipment listed in Schedule I shall file annual returns in Form-3, to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates. In case of the bulk consumer with multiple offices in a State, one annual return combining information from all the offices shall be filed to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

9. Specific Conditions for storage, Handling and Disposal of Waste from Electrical & Electronic equipment (WEEE):
1. **Collection of WEEE** - The applicant must provide appropriate and dedicated vehicles duly identified as per the norms for transportation of Hazardous Waste. The applicant shall obtain all the required permits for transportation of WEEE from competent authority. The applicant shall ensure the safe transport of the WEEE without any spillage during transportation.
Storage for disassembled parts: The applicant must provide appropriate storage for disassembled spare parts from WEEE. Some spare parts (e.g. motors and compressors) will contain oil and/or other fluids. Such part must be appropriately segregated and stored in containers that are secured such that oil and other fluids cannot escape from them. These containers must be stored on an area with an area with an impermeable surface and a sealed drainage system.
 2. **Storage for other components and residues:** Other components and residues arising from the treatment of WEEE will need to be contained following their removal for disposal or recovery. Where they contain hazardous substances they should be stored on impermeable surface and in appropriate containers or bays with weatherproof covering. Containers should be clearly labelled to identify their contents and must be secured so that liquids, including rain water cannot enter them. Components should be segregated having regard to their eventual destinations and the compatibility of the component types. All batteries should be handled and stored having regard to the potential fire risk associated with them.
 3. **Balances** : WEEE Guidelines also requires that sites for handling of WEEE have "balances to measure the weight of the segregated waste". The objective is to ensure that a record of weights can be maintained of WEEE entering a facility and components and materials leaving each site (together with their destinations). The nature of the weighing equipment should be appropriate for the type and quantity of WEEE being processed.
 4. Plastic, which cannot be recycled and is hazardous in nature, is recommended to be land filled in nearby CHWTSDf.
 5. Ferrous and nonferrous metal recycling facilities fall under the purview of existing environmental regulations for air, water, noise, land and soil pollution and generation of hazardous waste and the same should be followed.
 6. CFCS should be either reused or incinerated in common hazardous waste Incineration facilities at CHWTSDf.
 7. Waste Oil should be either reused or incinerated in common hazardous waste incineration facilities.
 8. PCB's containing capacitors shall be incinerated in common hazardous waste incineration facilities at CHWTSDf.
 9. Mercury recovery and lead recycling facilities from batteries fall under the Hazardous & Other Wastes (M & TM) Rules, 2016.
 10. Existing environmental regulations for air; water; noise, land and soil pollution and generation of hazardous waste and the same should be followed. In case Mercury or lead recovery is very low, they can be temporarily stored at e-waste recycling facility and later disposed in TSDF.
 11. The industry shall maintain records of the e-waste purchased, processed in Form-2 and shall file annual returns of its activities of previous year in Form-3 as per Rules 11(9) & 13(3)(vii) of the E-Waste(M) Rules, 2016; on or before 30th day of June of every year.
10. The Energy source for lighting purpose shall preferably be LED based

11. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
12. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
13. The applicant shall maintain good housekeeping.
14. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
15. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
16. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
17. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
18. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
19. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
20. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
21. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
22. The PP shall provide personal protection equipment as per norms of Factory Act

23. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
24. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
25. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
26. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
27. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
28. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
29. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
30. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
31. The industry should not cause any nuisance in surrounding area.
32. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
33. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
34. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
35. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.

36. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
37. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
38. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
39. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
40. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
41. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
42. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.



This certificate is digitally & electronically signed.

Annexure 6

Analysis report of treated sewage



Test Report No. INCHE24033830412100142

ULR No. : TC805724000013113F

Report Issue Date: 12 Apr 2024

TEST REPORT

Report Issued To: JSW Steel Limited			
P.O. Geetapuram, Village: Dolvi, Raigad - Maharashtra, 402107, India			
Discipline :	Chemical & Biological	Sample receipt date :	01 Apr 2024
Group :	Pollution and Environment	Date of registration :	01 Apr 2024
BV Sample ID :	1515816	Date of commencing of testing :	01 Apr 2024
Sample Name** :	STP 120 KLD Water	Date of completion of testing :	12 Apr 2024
Sample condition on receipt :	Good		
Sample quantity / Package :	1Ltr X 1No		
Sample Information:		Sampling Done by Laboratory	
Sampling procedure :	BVILCH/QMS/SOP-012	Date of sampling / collection :	28 Mar 2024
Sampling location :	JSW Steel Limited P.O. Geetapuram, Village: Dolvi, Raigad - Maharashtra, 402107.	Sampling / Collection done by :	Mr. Anitharaj

No.	Test Parameters	Unit	Test Results	Test Method	LOQ
1	pH Value	-	7.38	APHA 23rd Ed. 4500H+B	1
2	Total Suspended Solids	mg/L	5	APHA 23rd Ed. 2540 D	1
3	Oil and Grease	mg/L	BLQ	APHA 23rd Edition 2017 - 5520 O&G B	2
4	Bio-Chemical Oxygen Demand - 27°C/3 days	mg/L	2.4	IS 3025 Part 44 : 1993	1
5	Chemical Oxygen Demand	mg/L	40	APHA 23rd Edition 2017 - 5220 C	5
6	Ammonical Nitrogen as N	mg/L	BLQ	APHA 23rd Edn-4500 NH3 B,C	1

Abbreviations: LOQ: Limit of Quantification, BLQ: Below limit of quantification

** Indicates information supplied by the customer for which the laboratory has no control

Note: SAMPLE TESTED AS RECEIVED

Authorized Signatory

M.Ramesh

Manager



Test Report No. INCHE24033830412100142

Report Issue Date: 12 Apr 2024

No.	Test Parameters	Unit	Test Results	Test Method	LOQ
Microbiology (Discipline: Biological)					
7	Faecal Coliforms	MPN per 100mL	<1.8	APHA 23rd Edn 2017 9221 E	1.8

Abbreviations: LOQ: Limit of Quantification, BLQ: Below limit of quantification

** Indicates information supplied by the customer for which the laboratory has no control

Note: SAMPLE TESTED AS RECEIVED

Authorized Signatory



T.Kannan

Asst.Manager-Microbiology

DISCLAIMERS:

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— End of Report —



This page of the report is not under NABL accreditation

Annexure 7

Analysis report of treated sewage



Sachin Khairkar <sachin.khairkar@jsw.in>

Fwd: Six monthly compliance report of CRZ Clearance for Installation of Discharge of Treated Effluent System at JSW Steel Ltd into Amba Estuary at Dolvi, Taluka Pen, District Raigad, Maharashtra.

Anand Kumar Rai <anand.raai@jsw.in>

Fri, Dec 1, 2023 at 7:55 AM

To: ecompliance-mh@gov.in

Cc: RO RAIGAD <roraigad@mpcb.gov.in>, SRO RAIGAD2 <sroraigad2@mpcb.gov.in>, westzonecpb@yahoo.com

Bcc: sachin.khairkar@jsw.in

Ref: CRZ Clearance for 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 vide MOEFCC Letter F. No. 11-7/2023-IA. III dated 5th April 2023.

Dear Sir,

With reference to above, please find enclosed herewith Six monthly compliance report of CRZ Clearance 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 at Dolvi, Tehsil Pen, District Raigad, Maharashtra.

Submitted for kind information & record please.

Thanking you,
Yours faithfully,
For JSW Steel Limited

Dr Anand Rai
Vice President (Head - Environment)
JSW Steel Ltd

 **CRZ Clearance Compliance report JSW Steel Nov 2023 with Annexures - F.pdf**
14118K

Annexure 8

**Copy of Advertisement in two local newspapers
Navarashtra Raigad Marathi dated 12/04/2023
and Free Press Journal dated 12/04/2023**

जहिर सुचना

भारत सरकार, पर्यावरण, वन आणि हवामान बदल मंत्रालय (अण. प. विभाग) इंदिरा पर्यावरण भवन, जेएनएच रोड, अलीगंज, नवी दिल्ली - ११०००३ यांनी जे. एस. डब्ल्यू स्टील डोल्वी ताळुका पेगा जिल्हा रायगड महाराष्ट्र डोल्वी एस्कीयूअर स्टील प्रकल्पच्या स्वीकृत खांदपाणी डोल्वी येथील अंबा खाडीत प्रवाहित करण्यासाठी किनाऱ्यावरील नियमन क्षेत्र विभागाचा परवाना पर प्राय झाले आहे. पर क्रमांक एच. नं. ११- ७/२०२३-१६, ३ दि. ५ एप्रिल २०२३ परा महाराष्ट्र वसुंधरा निर्वहण मंडळकडे (म. प्र. नि. म.) आणी पर्यावरण वन आणि हवामान बदल मंत्रालयाच्या संकेतस्थळावर उपलब्ध आहे, <https://parivash.nic.in> आणि कंपनी www.jsw.in संकेतस्थळावर आहे.

कडून

मेसर्स जे.एस.डब्ल्यू स्टील डोल्वी,
ताळुका पेगा, जिल्हा रायगड,
महाराष्ट्र- ४०११००.

स्थळ : डोल्वी
दिनांक : ०९/०४/२०२३

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-110 003
Dated : 5th April, 2023

To

M/s JSW Steel Ltd.
Dolvi, Geetapuram
District Raigad
Maharashtra-402107
Email : anand.rao@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 5th 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 17th January, 2023 and 7th 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 16th 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 25th 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 m³/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 1057m³/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 m³/h having density 1001 kg/m³ 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 1,057m³/h. However, the planning for actual discharge is 615 m³/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 1,057m³/h. However the planning for actual discharge is 615 m³/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° 56' 29.94"E
Ganeshpuri	3	18° 46' 09.42"N; 72° 59' 35.34"E
RIL DP	4	18° 45' 08.58"N; 72° 59' 06.48"E
Dharamtar port	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	8	16° 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.
- (xvi) 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 :

- (i) All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011, as amended from time to time.
- (ii) 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.
- (iii) 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.
- (iv) 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.
- (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 CR2 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.
- (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://parivash.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 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, 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.

Sd/-
(Dr. H. Kharkwal)
Scientist 'E' (CRZ)

Copy to :

- The Principal Secretary, Environment Department, Government of Maharashtra, Annex Building, Mantralaya, Mumbai-400 032, Maharashtra.
- The Deputy DGF (C), MoEF&CC Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440 001, Maharashtra.
- The Member Secretary, Maharashtra Coastal Zone Management Authority (MCZMA), Environment and Climate Change Department, 15th Floor, New Administrative Building, Mantralaya, Mumbai-400 032, Maharashtra.
- The Member Secretary, Central Pollution Control Board, Parivash Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
- The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th Floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022, Maharashtra.
- Guard File/Monitoring File/Website/Record File.

Sd/-
(Dr. H. Kharkwal)
Scientist 'E' (CRZ)



**BRIHANMUMBAI
MAHANAGARPALIKA**

PUBLIC HEALTH DEPARTMENT
KASTURBA HOSPITAL
Sane Guruji Marg, Chinchpokali (West), Mumbai-400 011
No. HO/10439/KH Dt. 10.04.2023

E-Tender Notice

Online e-tender for supply of below mentioned kits is invited by Medical Superintendent - Kasturba Hospital for and on behalf of Municipal Commissioner of BMC.

Sr. No.	Bid No.	Name of the Item	Quantity
1	7200051417	Supply of Leptospira Real-time PCR (Qualitative) kit, Master mix, Controls and LEPTOSPIRA PRIMERS-FORWARD & REVERSE and Probes for PCR laboratory at Kasturba Hospital.	30 kits (30X100 Tests)

Bid Start : 12.04.2023 at 11:00 hrs. Bid End : 20.04.2023 at 15:00 hrs.

Contact Officer : Dr. Chandrakant P. Pawar
Medical Superintendent - Kasturba Hospital

Tel. No. : 022-23027700 e-mail : ms01kasturba.phd@mcgm.gov.in

Complete E-Tender documents are available in the E-tender portal <http://portal.www.mcgm.gov.in>

E-tender should be submitted online as per the E-Tender documents.

**Sd/-
Medical Superintendent
Kasturba Hospital**

PRO/70/ADV/2023-24

Fever? Act now, see your doctor for correct & complete treatment

Form No. 14
[See Regulation - 33(2)]
By Regd A/D. Dasti failing which by publication

**OFFICE OF THE RECOVERY OFFICER -I/II
DEBTS RECOVERY TRIBUNAL MUMBAI (DRT 3)**
1st Floor, MTNL Telephone Exchange Building, Sector-30 A,
Vashi, Navi Mumbai-400703

DEMAND NOTICE

NOTICE UNDER SECTIONS 25 TO 28 OF THE RECOVERY OF DEBTS & BANKRUPTCY ACT, 1993 AND RULE 2 OF SECOND SCHEDULE TO THE INCOME TAX ACT, 1961.

CANARA BANK
Versus
Mrs. Aparna Bhagat Bhagat

To
(CD 1) Mr. Aparna Bhagat Bhagat
At A/2/6, Kripa Nagar, Irla Bridge, Nutan Jeevan Co-op Hsg.' Society Limited, S.V. Road, Vileparle, Mumbai-400056.

This is to notify that as per the Recovery Certificate issued in pursuance of orders passed by the Presiding Officer, DEBTS RECOVERY TRIBUNAL MUMBAI (DRT 3) in OA/201/2007 an amount of **Rs. 15,77,049.00 (Rupees Fifteen Lakhs Seventy Seven Thousands Forty Nine Only)** along with pendente lite and future interest @ 9.40% Simple Interest Yearly w.e.f. 12/07/2007 till realization and costs of **Rs 42,270/- (Rupees Forty Two Thousands Two Hundred Seventy Only)** has become due against you (Jointly and severally).

2. You are hereby directed to pay the above sum within 15 days of the receipts of the notice, failing which the recovery shall be made in accordance with the Recovery of Debts Due to Banks and Financial Institutions Act, 1993 and Rules there under.

3. You are hereby ordered to declare on an affidavit the particulars of yours assets on or before the next date of hearing.

4. You are hereby ordered to appear before the undersigned on **12/04/2023 at 10:30 a.m.** for further proceedings.

5. In addition to the sum aforesaid, you will also be liable to pay:
(a) Such interests as is payable for the period commencing immediately after this notice of the certificate/execution proceedings.
(b) All costs, charges and expenses incurred in respect of the service of this notice and warrants and other processes and all other proceedings taken for recovering the amount due.

Given under my hand and the seal of the Tribunal, on this date: 27/07/2022.

**Sd/-
Recovery Officer
Debts Recovery Tribunal Mumbai (DRT 3)**

Seal

Public is hereby informed that **Mr. Anup Chandrakant Kulkarni** is a Member of our Society and having Flat No. B1-101 on the 1st Floor of the complex Known as "Swastik Garden Co-op. Hsg. Soc. Ltd., Has reported that the original share certificate has been Lost/ misplaced or otherwise not traceable by him and has applied For issuance of duplicate share certificates in lieu of original certificates Lost. The details of the share certificates are given below.

Flat No. B1-101. The said Flat No. B1-101 along with the share certificates as mentioned herein below was purchased by **Mr. Anup Chandrakant Kulkarni** along with Share Certificate No. 047 for 5 (Five) Shares for ₹ 50/- each. Any person/s having found the original or holding him towards any claim against the said certificate in any wise manner is required to make the same known to the Hon. Gen. Secretary, Swastik Garden Co-op. Hsg. Soc. Ltd, Pokharan Rd. No. 2 Subhash Nagar, Thane (w) 400606, within 10 Days from publishing this Notice, failing which the society shall proceed to issue duplicate share certificate to **Mr. Anup Chandrakant Kulkarni**. Reference to such claims, if any shall be considered as waived.

Sd/-
For Swastik Garden Co-op. Hsg Soc. Ltd.
Hon. Gen. Secretary

Place: Thane
Date : 12/04/2023

महाराष्ट्र शासन
सार्वजनिक न्यास नोंदीची कार्यालय
ठाणे विभाग ठाणे

वेस्ट व्यू, 3 ते 6 मजला,
राम मारुती रोड, गजानन महाराज
मंदिराजवळ, ठाणे (प), पिन नं.400 602
दुरध्वनी क्र.022-25346523

West View, 3 to 6 Floor,
Ram Maruti Road,Near Gajanan
Maharaj Mandir Thane (W), Pin. No. 400 602.
Telephone No. 022-25346523
Email – sudtest.th-mh@gov.in

जा.क्र. निरीक्षक/ई-४३७/निवडणूक / 609/23 दि. 11/04/2023

प्रति,

१) अभिनव शेतकरी शिक्षण मंडळ, नो. क्र. ई-४३७ (ठाणे),
अभिनव शिक्षण संकुल,गोडदेव, भाईंदर (पूर्वी), जिल्हा ठाणे -४०११०५
२) सार्वजनिक न्यास नोंदणी कार्यालय, ठाणे विभाग, ठाणे,
३) वृत्तपत्र :- 1) फ्री प्रेस जर्नल (इंग्रजी) (2) नव शक्ती (मराठी)

विषय - अभिनव शेतकरी शिक्षण मंडळ, नो. क्र. ई-४३७ (ठाणे) या न्यासाच्या निवडणूकीबाबत.

संदर्भ:- १) मा. धर्मदाय उप आयुक्त, ठाणे विभाग ठाणे, यांचे कलम ४ अ
अन्वयेचा अर्ज क्र.१२/२०२० मधील दि. १४.०३.२०२२ रोजीचे आदेश.
२) मा.धर्मदाय उप आयुक्त, ठाणे यांचे दिनांक ०७/१०/२०२२ रोजीचे आदेश.
३) मा.धर्मदाय उप आयुक्त, ठाणे यांचे दिनांक ३१/१०/२०२२ रोजीचे आदेश.
४) या कार्यालयाचे जा.क्र.निरी.१/२१६२/२०२२, दि.०२/११/२०२२ अन्वये निवडणूक कार्यक्रम जाहीर.
५) मा.उच्च न्यायालय, मुंबई यांचे रिट पिटीशन क्र. १४४३७/२०२२ रिट पिटीशन क्र.१३६६५/२०२२ मधील दि. २५/११/२०२२ रोजीचे आदेश.
६) जा.क्र.निरी.१/२३४९/२०२३, दिनांक ०२/१२/२०२२ अन्वये मा.उच्च न्यायालय, मुंबई यांचे आदेशान्वये सभासद यादी हरकतीकरीता प्रसीध्द करण्यात आल्या.
७) जा.क्र.निरी.१/१०८/२०२३, दिनांक ०६/०१/२०२३ अन्वये मा. उच्च न्यायालय, मुंबई यांचे आदेशान्वये अंतीक सभासद यादी प्रसीध्द करण्यात आल्या.
८) मा.उच्च न्यायालय, मुंबई यांचे रिट पिटीशन क्र. १४४३७/२०२२ रिट पिटीशन क्र.१३६६५/२०२२ मधील दि.२८/०३/२०२३ रोजीचे आदेश.
९) मा.धर्मदाय उप आयुक्त, ठाणे यांचे दिनांक १०/०१/२०२३ रोजीचे आदेश.

महोदय,
मा.उच्च न्यायालय, मुंबई येथे दाखल केलेल्या रिट पिटीशन क्र. १४४३७/२०२२ व रिट पिटीशन क्र.१३६६५/२०२२ मध्ये दि. २५/११/२०२२ रोजी मा. उच्च न्यायालय, मुंबई यांचे आदेशानुसार अभिनव शेतकरी शिक्षण मंडळ, नो. क्र. ई-४३७ (ठाणे) या न्यासाची निवडणूक घेणे काही दि.०६/०१/२०२३ रोजी अंतीम मतदार (सभासद) प्रति प्रसिध्द करण्यात आली आहे.तसेच सदरद्व प्रकरणात संदर्भ क्र.८ मध्ये मा. उच्च न्यायालय, मुंबई यांचे दिनांक २८/०३/२०२३ रोजीचे आदेशानुसार सोबत दिल्याप्रमाणे निवडणूक कार्यक्रम जाहीर करण्यात येत आहे. तसेच सदरील निवडणूक प्रक्रिया, सोबतच्या निवडणूक कार्यक्रमा तक्त्यात दिल्याप्रमाणे करण्यात येईल.
सोबत :- निवडणूक कार्यक्रम.

आपला विश्वासू,
(कि.बा. चव्हाण)
निवडणूक अधिकारी तथा निरीक्षक
(अभिनव शेतकरी शिक्षण मंडळ)
सार्वजनिक न्यास नोंदणी कार्यालय,
ठाणे विभाग, ठाणे.

अभिनव शेतकरी शिक्षण मंडळ, सार्वजनिक न्यास नोंदणी क्रमांक ई-४३७ (ठाणे)
निवडणूक कार्यक्रम

अ.क्र.	तपशिल	दिनांक व वेळ
1	अभिनव शेतकरी शिक्षण मंडळ, नो. क्र. ई-४३७ (ठाणे) या न्यासाची निवडणूक कार्यक्रम प्रसिध्द करणे :-	दि. १२/०४/२०२३ सांकाळी ११.०० ते सांकाळी ०६.०० वाजेपर्यंत स्थळ - 1) सार्वजनिक न्यास नोंदणी कार्यालय, ठाणे विभाग, ठाणे, वेस्ट व्यू, ६ मजला,राम मारुती रोड, गजानन महाराज मंदिराजवळ, ठाणे (प), नं. ४०० ६०२. व 2) अभिनव शेतकरी शिक्षण मंडळ, नो. क्र. ई-४३७ (ठाणे), अभिनव शिक्षण संकुल, गोडदेव, भाईंदर (पूर्वी), जिल्हा ठाणे -४०१ १०५ दोन्ही कार्यालयाच्या नोंदीस बोर्द्वर. ३) वृत्तपत्र :- 1) फ्री प्रेस जर्नल (इंग्रजी) 2) नव शक्ती (मराठी)
2	उमेदवारी अर्ज प्राप्त करण घेण्याचे ठिकाण, दिनांक व वेळ :-	दि. १४/०४/२०२३ सांकाळी ११.०० ते सांकाळी ०५.०० वाजेपर्यंत स्थळ- श्री किशोर बा. चव्हाण, निवडणूक अधिकारी तथा निरीक्षक सार्वजनिक न्यास नोंदणी कार्यालय, ठाणे विभाग, ठाणे, वेस्ट व्यू, ६ मजला, राम मारुती रोड, गजानन महाराज मंदिराजवळ, ठाणे (प), पिन नं. ४००६०२
3	प्रत्यक्ष स्वतः उमेदवारी अर्ज दाखल करणे करिताचे ठिकाण, दिनांक व वेळ :- अर्ज सोबत देण्यात आलेले प्रतिज्ञापत्र (रजिस्टर नोटरी) तसेच स्वतःचे आधार कार्ड / पॅनकार्ड सांक्षातिक करण अर्जसोबत जोडणे आवश्यक आहे.	दि. २०/०४/२०२३ सांकाळी ११.०० ते सांकाळी ० ५.०० वाजेपर्यंत स्थळ- श्री किशोर बा. चव्हाण, निवडणूक अधिकारी तथा निरीक्षक सार्वजनिक न्यास नोंदणी कार्यालय, ठाणे विभाग, ठाणे, वेस्ट व्यू, ६ मजला,राम मारुती रोड, गजानन महाराज मंदिराजवळ, ठाणे (प), पिन नं. ४०० ६०२.
4	उमेदवारी अर्ज मागे घेणे करिताचे ठिकाण, दिनांक व वेळ :-	दि. २४/०४/२०२३ सांकाळी ११.०० ते सांकाळी ०४.०० वाजेपर्यंत स्थळ- श्री किशोर बा. चव्हाण, निवडणूक अधिकारी तथा निरीक्षक सार्वजनिक न्यास नोंदणी कार्यालय, ठाणे विभाग, ठाणे, वेस्ट व्यू, ६ मजला,राम मारुती रोड, गजानन महाराज मंदिराजवळ, ठाणे (प), पिन नं. ४०० ६०२.
5	निवडणूकीसाठी उभे असलेल्या उमेदवारांची अंतीम यादी प्रसिध्द करणे.	दि. २५/०४/२०२३ सांकाळी ११.०० ते सांकाळी ०६.०० वाजेपर्यंत स्थळ- सार्वजनिक न्यास नोंदणी कार्यालय, ठाणे विभाग, ठाणे, वेस्ट व्यू, ६ मजला,राम मारुती रोड, गजानन महाराज मंदिराजवळ, ठाणे (प), पिन नं. ४०० ६०२ येथील नोंदीस बोर्द्वर.
6	मतदानाचा दिनांक व वेळ (मतदान स्थळ)	दि. २९/०४/२०२३ सांकाळी ०९.०० ते ४.०० वाजेपर्यंत स्थळ :- अभिनव शेतकरी शिक्षण मंडळ, नो. क्र. ई-४३७ (ठाणे), प्रशासकीय इमारत,इमारत क्र.१, अभिनव शिक्षण संकुल, गोडदेव गांव, भाईंदर (पूर्वी), जिल्हा ठाणे-४०१ १०५.
7	मतमोजणी दिनांक व वेळ (मतदान स्थळ)	दि. २९/०४/२०२३ सांकाळी ०४.३० पासून मतमोजणी संपेपर्यंत स्थळ :- अभिनव शेतकरी शिक्षण मंडळ, नो. क्र. ई-४३७ (ठाणे), प्रशासकीय इमारत,इमारत क्र.१, अभिनव शिक्षण संकुल, गोडदेव गांव,भाईंदर (पूर्वी), जिल्हा ठाणे-४०१ १०५.
8	निकाळीची घोषणा	दि. २९/०४/२०२३ मतमोजणी संपल्यानंतर स्थळ :- अभिनव शेतकरी शिक्षण मंडळ, नो. क्र. ई-४३७ (ठाणे), प्रशासकीय इमारत,इमारत क्र.१, अभिनव शिक्षण संकुल, गोडदेव गांव,भाईंदर (पूर्वी), जिल्हा ठाणे-४०१ १०५.

टिप:-

1. वरील निवडणूक कार्यक्रमानुसार सदर निवडणूकीत भाग घ्यायच्या असेल त्यांनी नमूद पत्त्यावर प्रत्यक्ष स्वतः संपर्क साधावा.

2. सार्वजनिक न्यास नोंदणी कार्यालय, ठाणे विभाग, ठाणे, वेस्ट व्यू, ६ मजला,राम मारुती रोड,गजानन महाराज मंदिराजवळ, ठाणे (प), पिन नं. ४०० ६०२, येथे प्रत्यक्ष स्वतः हजर राहून श्री किशोर चव्हाण, निवडणूक अधिकारी तथा निरीक्षक, यांचेकडून उमेदवारी अर्ज प्राप्त करून घ्यावेत. सोबत मुळ ओळखपत्र (आधार कार्ड, पॅन कार्ड, इंडव्हिडुअल लासर्सन) आणणे अनिवार्य असेल.

3. अर्ज घेण्या-या उमेदवाराचे नांव दि.०५/०१/२०२३ रोजी प्रसिध्द केलेल्या अंतीम मतदार (सभासद) यादी मध्ये असेणे अनिवार्य आहे.

4. सार्वजनिक न्यास नोंदणी कार्यालय, ठाणे विभाग, ठाणे, वेस्ट व्यू, ६ मजला,राम मारुती रोड,गजानन महाराज मंदिराजवळ, ठाणे (प), पिन नं. ४०० ६०२, येथे प्रत्यक्ष स्वतः हजर राहून श्री किशोर चव्हाण, निवडणूक अधिकारी तथा निरीक्षक, यांचेकडे उमेदवारी अर्ज दाखल करण्यात यावेत. येताना सोबत मुळ ओळखपत्र व त्याच्या छायांकित प्रती आणणे अनिवार्य आहे.

5. उमेदवारी अर्ज मागरी वेळेवेळी उमेदवाराने स्वतः निवडणूक अधिकारी यांचे समोर उपस्थित राहणे आवश्यक आहे.

6. सभासदांनी मतदानास येताना निवडणूक आयोगाने मान्य केलेल्या ओळखपत्रांच्या पुरत्या पैकी एक ओळखपत्र पुरता म्हणुण सोबत आणणे आवश्यक आहे. अन्यथा त्यांना मतदान करता येणार नाही.

7. सदर निवडणूक ही खालील पदांकरीता घेण्यात येतील.
सभासद - १५ पदांसाठी, (वटनेतील कलम ९(२) अन्वये व्यवस्थापक मंडळाची)

8. ऐनेवेळी येण-या परिसिथितीसुमार निवडणूक कार्यक्रमात बदल करवायचा झाल्यास निवडणूक अधिकारी यांनी वेळेसाले निर्णय अंतिम राहील.

आपला विश्वासू,
(कि.बा. चव्हाण)
निवडणूक अधिकारी तथा निरीक्षक
(अभिनव शेतकरी शिक्षण मंडळ)
सार्वजनिक न्यास नोंदणी कार्यालय,
ठाणे विभाग, ठाणे.

PUBLIC NOTICE

Government of India, Ministry of Environment, Forest and Climate Change (I.A. Division) Indira Parayavaran Bhawan, Jor Bag Road, Ali Ganj, New Delhi-110 003 has accorded the CRZ Clearance - regarding vide letter No F. No. 11-7/2023-IA. III dated 5th April 2023 to M/s. JSW Steel Ltd. 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.

The Copy of this CRZ Clearance Letter is available with Maharashtra Pollution Control Board (MPCB) and at website of Ministry Environment, Forest and Climate Change at <https://parivesh.nic.in> and Company Website www.jsw.in

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

Place : Dolvi
Date : 09/04/2023

**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-110 003
Dated : 5th April, 2023

To
M/s JSW Steel Ltd.
Dolvi, Geetapuram
District Raigad
Maharashtra-402107
Email : anand.raai@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 5th 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 17th January, 2023 and 7th 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-110117/76/2013-IA. II (I) dated 16th 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-110117/76/2013-IA II (I) dated 25th 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 m3/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 1057m3/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 m3/h having density 1001 kg/m3 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 1,057m3/h. However, the planning for actual discharge is 615 m3/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 Dharantar 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 1,057m3/h. However the planning for actual discharge is 615 m3/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
RIL DP	4	18° 45' 08.58"N; 72° 59' 06.48"E
Dharantar port	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	8	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 / SPCCB. 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 :

- (i) All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011, as amended from time to time.
- (ii) 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.
- (iii) 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.
- (iv) 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.
- (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 / SPCCB.
- (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 CR2 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.
- (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 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, 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.

Copy to :

1. The Principal Secretary, Environment Department, Government of Maharashtra, Annexe Building, Mantralaya, Mumbai-400 032, Maharashtra.
2. The Deputy DGF (C), MoEF&CC Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440 001, Maharashtra.
3. The Member Secretary, Maharashtra Coastal Zone Management Authority (MCZMA), Environment and Climate Change Department, 15th Floor, New Administrative Building, Mantralaya, Mumbai-400 032, Maharashtra.
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
5. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th Floor, Opp. Cane Planet, Sion Circle, Mumbai-400 022, Maharashtra.
6. Guard File/Monitoring File/Website/Record File.

**Sd/-
(Dr. H. Kharkwal)
Scientist 'E' (CRZ)**

Annexure 9

**Copy of CRZ Clearance letter is sent to concerned
local administrative offices**

Dolvi Works:

Geetapuram,
Dolvi, Taluka - Pen,
Dist. Raigad - 402 107, Maharashtra, India.
CIN : L27102MH1994PLC152925
Phone : +91 2143 663000/3100/3200
Fax : +91 2143 277533/42
Website : www.jsw.in

जेएसडब्ल्यू/जिल्हाधिकारी कार्यालय/इसी/२०२३

दिनांक: २७/०४/२०२३

प्रती,

माननीय जिल्हाधिकारी तथा जिल्हादंडाधिकारी

जिल्हा रायगड

विषय: वन व पर्यावरण मंत्रालय नवी दिल्ली यांचेकडून जेएसडब्ल्यू स्टील लि. कंपनी डोलवी प्लॅन्टमधून प्रक्रिया केलेल्या सांडपाण्याचा विसर्ग डोलवी येथील अंबा खाडीमध्ये करण्यासाठी पर्यावरणाचे ना हरकत प्रमाणपत्र प्राप्त झाल्याचे कळविणेबाबत.

महोदय,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी, ता. पेण, जि. रायगड या प्रकल्पाला भारत सरकार पर्यावरण, वन आणि क्लायमेट चेंज मंत्रालय (आय.ए. विभाग), इंदिरा पर्यावरण भवन, जोर बाग रोड, नवी दिल्ली ११०००३ यांच्याकडून दिनांक ०५/०४/२०२३ रोजी जेएसडब्ल्यू स्टील लि. डोलवी प्लॅन्टमधून प्रक्रिया केलेल्या सांडपाण्याचा विसर्ग डोलवी येथील अंबा खाडीमध्ये करण्यासाठी पर्यावरणाचे ना हरकत प्रमाणपत्र प्राप्त झाले आहे.

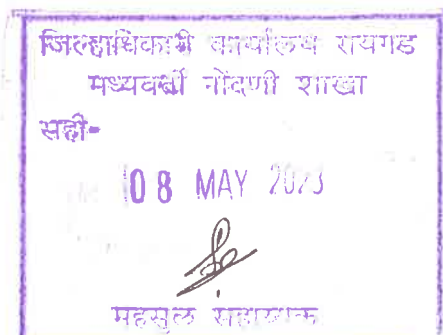
सदर प्रमाणपत्राची प्रत पर्यावरण, वन आणि क्लायमेट चेंज मंत्रालयामध्ये व त्यांच्या <http://parivesh.nic.in/> या संकेत स्थळावर व राज्य प्रदूषण नियंत्रण मंडळाकडे पाहण्यासाठी उपलब्ध आहे.

सदरील ना हरकत प्रमाणपत्राची प्रत आपल्या माहितीसाठी सोबत सादर करित आहोत.

आपला आभारी,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी करीता

(प्राधिकृत अधिकारी)



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

जेएसडब्ल्यू/उपविभागीय अधिकारी अलिबाग/इसी/२०२३

दिनांक: २७/०४/२०२३

प्रती,

माननीय उपविभागीय अधिकारी तथा उपविभागीय दंडाधिकारी अलिबाग,
उपविभाग अलिबाग, ता. अलिबाग, जिल्हा- रायगड.

विषय: वन व पर्यावरण मंत्रालय नवी दिल्ली यांचेकडून जेएसडब्ल्यू स्टील लि. कंपनी डोलवी प्लॅन्टमधून प्रक्रिया केलेल्या सांडपाण्याचा विसर्ग डोलवी येथील अंबा खाडीमध्ये करण्यासाठी पर्यावरणाचे ना हरकत प्रमाणपत्र प्राप्त झाल्याचे कळविणेबाबत.

महोदय,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी, ता. पेण, जि. रायगड या प्रकल्पाला भारत सरकार पर्यावरण, वन आणि क्लायमेट चेंज मंत्रालय (आय.ए. विभाग), इंदिरा पर्यावरण भवन, जोर बाग रोड, नवी दिल्ली ११०००३ यांच्याकडून दिनांक ०५/०४/२०२३ रोजी जेएसडब्ल्यू स्टील लि. डोलवी प्लॅन्टमधून प्रक्रिया केलेल्या सांडपाण्याचा विसर्ग डोलवी येथील अंबा खाडीमध्ये करण्यासाठी पर्यावरणाचे ना हरकत प्रमाणपत्र प्राप्त झाले आहे.

सदर प्रमाणपत्राची प्रत पर्यावरण, वन आणि क्लायमेट चेंज मंत्रालयामध्ये व त्यांच्या <http://parivesh.nic.in/> या संकेत स्थळावर व राज्य प्रदूषण नियंत्रण मंडळाकडे पाहण्यासाठी उपलब्ध आहे.

सदरील ना हरकत प्रमाणपत्राची प्रत आपल्या माहितीसाठी सोबत सादर करित आहोत.

आपला आभारी,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी करीता



(प्राधिकृत अधिकारी)

Dolvi Works:

Geetapuram,
Dolvi, Taluka - Pen,
Dist. Raigad - 402 107. Maharashtra, India.
CIN : L27102MH1994PLC152925
Phone : +91 2143 663000/3100/3200
Fax : +91 2143 277533/42
Website : www.jsw.in

जेएसडब्ल्यू/तहसिल कार्यालय अलिबाग/इसी/२०२३

दिनांक: २७/०८/२०२३

प्रती,

माननीय तहसिलदार तथा कार्यकारी दंडाधिकारी अलिबाग,
ता. अलिबाग, जिल्हा- रायगड.

विषय: वन व पर्यावरण मंत्रालय नवी दिल्ली यांचेकडून जेएसडब्ल्यू स्टील लि. कंपनी डोलवी प्लॅन्टमधून प्रक्रिया केलेल्या सांडपाण्याचा विसर्ग डोलवी येथील अंबा खाडीमध्ये करण्यासाठी पर्यावरणाचे ना हरकत प्रमाणपत्र प्राप्त झाल्याचे कळविणेबाबत.

महोदय,

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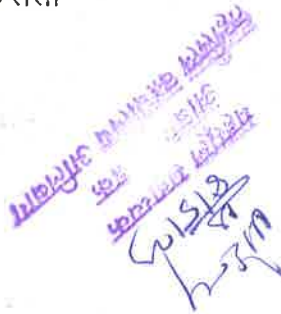
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सदरील ना हरकत प्रमाणपत्राची प्रत आपल्या माहितीसाठी सोबत सादर करित आहोत.

आपला आभारी,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी करीता


(प्राधिकृत अधिकारी)



Dolvi Works:

Geetapuram,
Dolvi, Taluka - Pen,
Dist. Raigad - 402 107, Maharashtra, India.
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जेएसडब्ल्यू/मुख्य कार्यकारी अधिकारी/इसी/२०२३

दिनांक: २७/०८/२०२३

प्रती,

माननीय मुख्य कार्यकारी अधिकारी,

जिल्हापरिषद रायगड

अलिबाग, जिल्हा-रायगड

विषय: वन व पर्यावरण मंत्रालय नवी दिल्ली यांचेकडून जेएसडब्ल्यू स्टील लि. कंपनी डोलवी प्लॅन्टमधून प्रक्रिया केलेल्या सांडपाण्याचा विसर्ग डोलवी येथील अंबा खाडीमध्ये करण्यासाठी पर्यावरणाचे ना हरकत प्रमाणपत्र प्राप्त झाल्याचे कळविणेबाबत.

महोदय,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी, ता. पेण, जि. रायगड या प्रकल्पाला भारत सरकार पर्यावरण, वन आणि क्लायमेट चेंज मंत्रालय (आय.ए. विभाग), इंदिरा पर्यावरण भवन, जोर बाग रोड, नवी दिल्ली ११०००३ यांच्याकडून दिनांक ०५/०८/२०२३ रोजी जेएसडब्ल्यू स्टील लि. डोलवी प्लॅन्टमधून प्रक्रिया केलेल्या सांडपाण्याचा विसर्ग डोलवी येथील अंबा खाडीमध्ये करण्यासाठी पर्यावरणाचे ना हरकत प्रमाणपत्र प्राप्त झाले आहे.

सदर प्रमाणपत्राची प्रत पर्यावरण, वन आणि क्लायमेट, चेंज मंत्रालयामध्ये व त्यांच्या <http://parivesh.nic.in/> या संकेत स्थळावर व राज्य प्रदूषण नियंत्रण मंडळाकडे पाहण्यासाठी उपलब्ध आहे.

सदरील ना हरकत प्रमाणपत्राची प्रत आपल्या माहितीसाठी सोबत सादर करीत आहोत.

आपला आभारी,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी करीता

(प्राधिकृत अधिकारी)

8/5/23
लेखनिक
मध्यवर्ती नोंदणी शाखा
रायगड जिल्हा परिषद, अलिबाग
402 201

जेएसडब्ल्यू/जिल्हा उद्योग केंद्र/इसी/२०२३

दिनांक: २७/०४/२०२३

प्रती,
माननीय व्यवस्थापक,
जिल्हा उद्योग केंद्र,
रायगड, अलिबाग

विषय: वन व पर्यावरण मंत्रालय नवी दिल्ली यांचेकडून जेएसडब्ल्यू स्टील लि. कंपनी डोलवी प्लॅन्टमधून प्रक्रिया केलेल्या सांडपाण्याचा विसर्ग डोलवी येथील अंबा खाडीमध्ये करण्यासाठी पर्यावरणाचे ना हरकत प्रमाणपत्र प्राप्त झाल्याचे कळविणेबाबत.

महोदय,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी, ता. पेण, जि. रायगड या प्रकल्पाला भारत सरकार पर्यावरण, वन आणि क्लायमेंट चेंज मंत्रालय (आय.ए. विभाग), इंदिरा पर्यावरण भवन, जोर बाग रोड, नवी दिल्ली ११०००३ यांच्याकडून दिनांक ०५/०४/२०२३ रोजी जेएसडब्ल्यू स्टील लि. डोलवी प्लॅन्टमधून प्रक्रिया केलेल्या सांडपाण्याचा विसर्ग डोलवी येथील अंबा खाडीमध्ये करण्यासाठी पर्यावरणाचे ना हरकत प्रमाणपत्र प्राप्त झाले आहे.

सदर प्रमाणपत्राची प्रत पर्यावरण, वन आणि क्लायमेंट चेंज मंत्रालयामध्ये व त्यांच्या <http://parivesh.nic.in/> या संकेत स्थळावर व राज्य प्रदूषण नियंत्रण मंडळाकडे पाहण्यासाठी उपलब्ध आहे.

सदरील ना हरकत प्रमाणपत्राची प्रत आपल्या माहितीसाठी सोबत सादर करीत आहोत.

आपला आभारी,

जेएसडब्ल्यू स्टील लिमिटेड डोलवी करीता

(प्राधिकृत अधिकारी)

०४/०५/२०२३

जिल्हा उद्योग केंद्र
अलिबाग

Annexure 10

**Copy of Environment Statement (Form-V)
of Expansion form 5 to 10 MTPA Steel Plant**



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000061208

Submitted Date

29-09-2023

PART A

Company Information

Company Name

JSW STEEL LIMITED PHASE II (INTEGRATED STEEL PLANT 5-10 MTPA))

Application UAN number

0000136178

Address

GEETAPURAM DOLVI

Plot no

42,43,50,44,45,54,55,56,33,32,38,49,75

Taluka

PEN

Village

DOLVI VILLAGE

Capital Investment (In lakhs)

1928700

Scale

LARGE

City

PEN

Pincode

402107

Person Name

DR.ANAND RAI

Designation

VICE PRESIDENT (HOD-ENVIRONMENT)

Telephone Number

02143663200

Fax Number

00000

Email

anand.raai@jsw.in

Region

SRO-Raigad II

Industry Category

Red

Industry Type

R53 Iron & Steel (involving processing from ore/ integrated steel plants) and or Sponge Iron units

Last Environmental statement submitted online

yes

Consent Number

Format 1.0/CAC /UAN
NO.0000136178/CR- 230300

Consent Issue Date

2023-03-08

Consent Valid Upto

2023-04-30

Establishment Year

2021

Date of last environment statement submitted

Sep 29 2022 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

CALCINATED LIME

Consent Quantity

1800

Actual Quantity

1573

UOM

Ton/Ton

PELLET

9000000

6004913

MT/A

CRUDE STEEL

6200000

4009783.54

MT/A

HOT ROLLED COIL

5000000

3573296

MT/A

LIQUID METAL

4500000

4126798

MT/A

POWER GENERATION

245

187.24

Mwh

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
NA	0	0	MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	88085.00	40221.00
Domestic	300.00	292.00
All others	73492.00	590.00
Total	161877.00	41103.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT	19265	19265	CMD
DOMASTIC EFFLUENT	258	258	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
CALCINATED LIME (M3/UNIT OF PRODUCT)	0140	37.60	MT/A
PELLET (M3/UNIT OF PRODUCT)	0.181	0.122	MT/A
CRUDE STEEL (M3/UNIT OF PRODUCT)	1.288	0.599	MT/A
HOT ROLLED COIL (M3/UNIT OF PRODUCT)	0.384	0.421	MT/A
LIQUID METAL (M3/UNIT OF PRODUCT)	9.39	0.768	MT/A

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
LIME STONE	2.99	453.44	MT/A
PELLET	1.10	1.17	MT/A
COKE	2.06	0.404	MT/A
IRON ORE	0.551	0.045	MT/A
PELLET	4.083	1.17	MT/A
SINTER	3.163	0.691	MT/A
QUARTZ	0.133	0.007	MT/A
DOLOMITE	0.155	267.08	MT/A
LIME STONE	0.104	0.041	MT/A
COAL	0.380	0.0206	MT/A
LIQUID STEEL	0.18	1.029	MT/A
HOT METAL SLAB	5.34	1.122	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
COKE & CPC	0	21852	NM3/Annum
NITROGEN	0	118603109	
NATURAL GAS	0	16762878	NM3/Annum
OXYGEN	0	273951683	NM3/Annum
POWER	0	1060952147	Mwh
LD GAS GENERATION	0	200676993	NM3/Annum
COKE OVEN GAS	0	34923669.93	SCM/Day
COKE	0	1669066.918	Ton/Y
PCI	0	769657.63	Ton/Y
NUT COKE	0	249847.771	Ton/Y
BF GAS	0	2975030590	NM3/Annum

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NA	0	0	0	0	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Kiln -5 Stack	27.4	21.1	57.8	50	NA
Kiln -6 Stack	33.1	22.3	55.4	50	NA
Kiln -7 Stack	29.2	21.1	57.9	50	NA
PELLET-2 Process ESP Stack	1258.4	26.4	47.2	50	NA
PELLET-2 De Dusting ESP Stack	245.8	24.8	50.5	50	NA
PELLET-2 Storage Bin Stack	64.4	21.3	57.5	50	NA
SMS-2 Secondary De-Dusting Stack	531.0	24.3	51.5	50	NA
HSM-2 Reheating Furnace Stack -1	124.1	17.6	64.8	50	NA
HSM-2 Reheating Furnace Stack -2	23.5	15.9	68.3	50	NA
HSM-2 Fume Exhaust Stack	39.5	17.4	65.1	50	NA
BF-2 Cast House Dedusting System	693.9	21.4	57.2	50	NA
BF-2 Stock House De System Stack-1	859.7	26.8	46.5	50	NA
BF-2 Stock House De System Stack-2	116.3	22.8	54.5	50	NA

BF-2 Stock House De System Stack-3	29.9	21.2	57.7	50	NA
BF-2 Coal Injection Stack	139.2	24.1	51.8	50	NA
BF-2 Pig Iron Granulation Stack	23.4	17.5	65	50	NA
BF-2 Stove stack	137.4	15.1	49.6	50	NA
Boiler Stack 175 MW CPP	62.9	4.8	90.5	50	NA

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	0	57.800	KL/A
5.2 Wastes or residues containing oil	0	10500	Kg/Annum
3.3 Sludge and filters contaminated with oil	0	0.093	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
K R SLAG	0	21213	MT/A
LD SLAG+ SLAG FROM SMS	0	47871	MT/A
LHF/RDH SLAG	0	51033	MT/A
Bolder Slag generation from Dry Pit	0	118774	MT/A
Slag generation from SGP+GRANULATED SLAG FROM BF	0	1266123	MT/A
SCALE	0	8874	MT/A
REFRACTORY WASTE	0	10442	MT/A
TUNDISH SCALE	0	25523	MT/A
LADLE SKULL	0	12300	MT/A
METALIC SCRAPE	0	35000	MT/A
SCALE FROM LADLE HEATING FURNACE.	0	20	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
CALCINATED LIME FINES	0	4265	MT/A
ESP & BAG FILTER DUST	0	19680	MT/A
BAG FILTER DUST	0	19200	MT/A
HSM SLADGE	0	101880	MT/A
BF DUST CATCHER FINES	0	66921	MT/A

BF GCP DUST	0	33450	MT/A
CAST HOUSE DE SYSTEM DUST	0	5380	MT/A
STOCK HOUSE DE SYSTEM DUST	0	5300	MT/A
SMS GCP FINES	0	100267	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	57.800	KL/A	SOLD TO MPCB ATHORISED RECYCLYER
5.2 Wastes or residues containing oil	10550	Kg/Annum	USED IN FURNACE
3.3 Sludge and filters contaminated with oil	0.093	Kg/Annum	USED IN FURNACE

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
K R SLAG	21213	Ton/Y	Used in Cement Plant
LD SLAG+ SLAG FROM SMS	47871	Ton/Y	Used in land development, Road making, Marine Structure & Sand
LHF/RDH SLAG	51033	Ton/Y	Used in Cement Plant
Bolder Slag generation from Dry Pit	118774	Ton/Y	Used in Cement Plant
Slag generation from SGP+GRANULATED SLAG FROM BF	1266123	Ton/Y	Used in Cement Plant
SCALE	8874	Ton/Y	Used at Sinter Plant for Sinter Making
REFRACTORY WASTE	10442	Ton/Y	Used in SMS
TUNDISH SCALE	25523	Ton/Y	Used in SMS
LADLE SKULL	12300	Ton/Y	Used in SMS
METALIC SCRAPE	35000	Ton/Y	Used in SMS
SCALE FROM LADLE HEATING FURNACE.	20	Ton/Y	Reuse in the Sinter / Pellet Plant
CALCINATED LIME FINES	4265	Ton/Y	Used at Sinter Plant for Sinter Making
ESP & BAG FILTER DUST	19680	Ton/Y	Used at Sinter Plant for Sinter Making
BAG FILTER DUST	19200	Ton/Y	Used at Sinter Plant for Sinter Making
HSM SLADGE	101880	Ton/Y	Used at Sinter / Pellet Plant
BF DUST CATCHER FINES	66921	Ton/Y	Used at Sinter Plant for Sinter Making
BF GCP DUST	33450	Ton/Y	Used at Sinter Plant for Sinter Making
CAST HOUSE DE SYSTEM DUST	5380	Ton/Y	Used at Sinter Plant for Sinter Making
STOCK HOUSE DE SYSTEM DUST	5300	Ton/Y	Used at Sinter Plant for Sinter Making
SMS GCP FINES	100267	Ton/Y	Used at Sinter / Pellet Plant

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
NA	0	0	0	0	1928700	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

[B] Investment Proposed for next Year		
Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

The company is well aware of surrounding Environment. JSW Steel Limited has planted large number of trees in the plant premises as per the guidelines given by MPCB. We are maintaining the full-fledged Nursery managed by a qualified Horticulture Officers to develop plants for our in house requirement. Till date about 210911 Nos. big trees and 707740 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

DR.ANAND RAI VICE PRESIDENT(HOD ENVIRONMENT)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000061208

Submitted On:

29-09-2023