



Date: 27th May 2024

To,

SHRI V.N. AMBADE, IFS
Deputy Director General of Forests (C)
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Ground Floor, East Wing,
New Secretariat Building, Civil Lines,
Nagpur- 440001

**Subject: Submission of Half Yearly Environment Clearance Compliance report of M/s
JSW Cement Limited, located Geetapuram Dolvi Pen Dist Raigad
Maharashtra-Reg.**

Ref: F No IA-J-11011/499/2017- 1A. II (I) dated 2 February 2018

Dear Sir,

With reference to the above cited subject, we are herewith furnishing the Point wise compliance report to the stipulated conditions of E. C. bearing No IA-J-11011/499/2017- 1A. II (I) dated 2 February 2018 of M/s JSW Cement Limited located Geetapuram Dolvi Pen Dist Raigad Maharashtra in soft copy for the period 1st Oct 2023 to 31st Mar 2024.

This is for your kind information and office record please.

Thanking You

Yours Faithfully
For JSW Cement Limited
Authorized Signatory


Manish Pujari
(Unit Head)

Half yearly Compliance Report (1st October 2023 to 31st March 2024)



JSW Cement Limited, Dolvi works

(village Khar Karavi, Gadab, Taluka Pen, Dist. Raigad Maharashtra 402107)

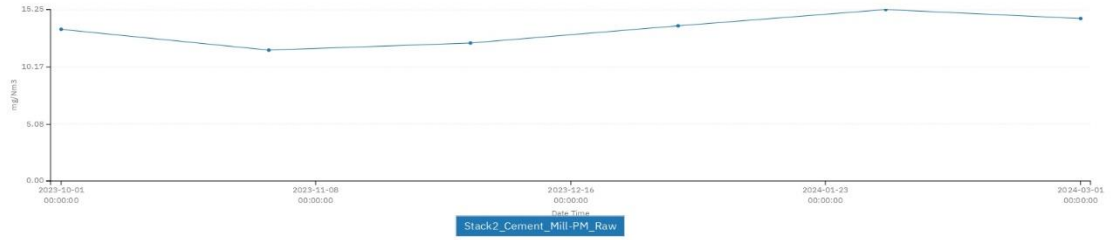
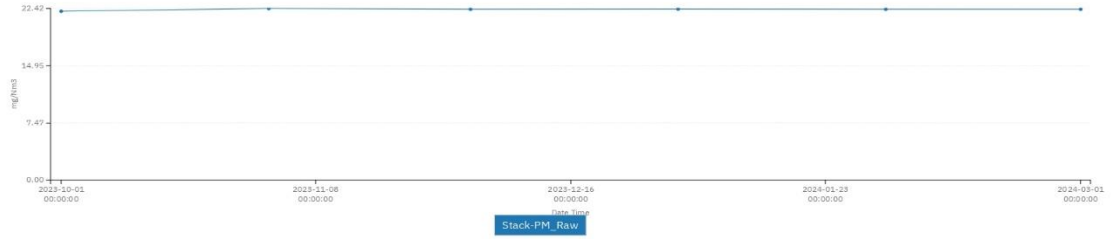
Name of Project	:	Environmental Clearance for the 10 MTPA Slag & Clinker Grinding Unit, JSW Cement Ltd. located at Geethapuram, Village Dolvi, Tal: Pen, District Raigad, Maharashtra.
Clearance letter No.	:	F. No IA-J-11011/499/2017-IA.II(I) dated 2nd February 2018
Period of Compliance	:	1st October 2023 to 31st March 2024
A	Specific Conditions	
Sl. No	Conditions	Compliance Status
i	The project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent discharge, as provided by CPCB and submit report to Ministry and its Regional Office.	<p>Complied.</p> <p>JSW Cement plant is established within JSW Steel complex where five numbers of CAAQMS 24x7 are installed at the periphery of the steel complex and these are connected to CPCB & MPCB servers.</p> <p>In addition, JSWCL has also installed 2 nos of CAAQMS in the existing cement plant premises with connectivity to CPCB & MPCB. These analyzers also measure the ambient air quality of new unit which is in close proximity to the existing plant.</p> <p>We have installed online continuous emission monitoring system (OCEMS) in the cement mill stacks. OCEMS has been connected to CPCB & MPCB servers for online data transmission.</p> <p>Online effluent monitoring is not applicable for cement plants as per CPCB guidelines.</p> <p>Monitoring reports are being regularly submitted to the Ministry, CPCB and also to its Regional office.</p>

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MPCB

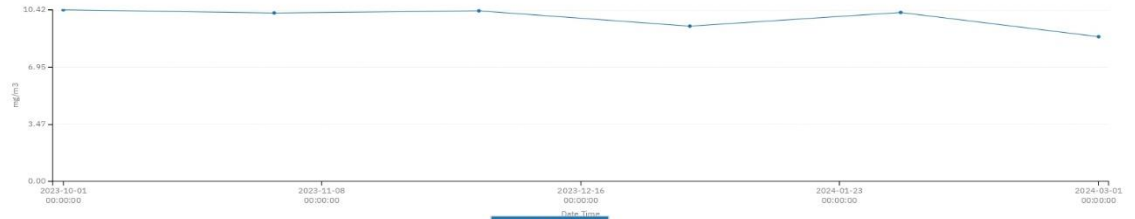


Custom Report
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Created by: JSWKM, Created On: 29/05/2024

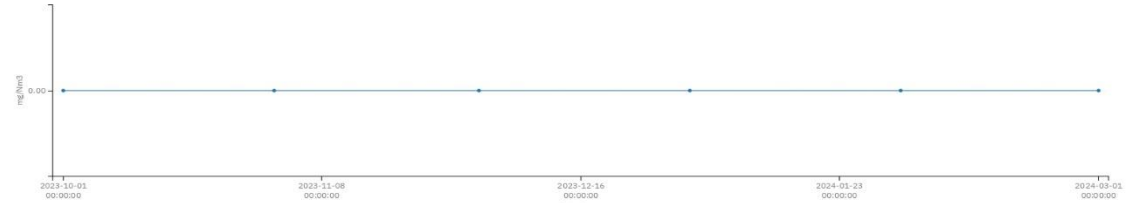


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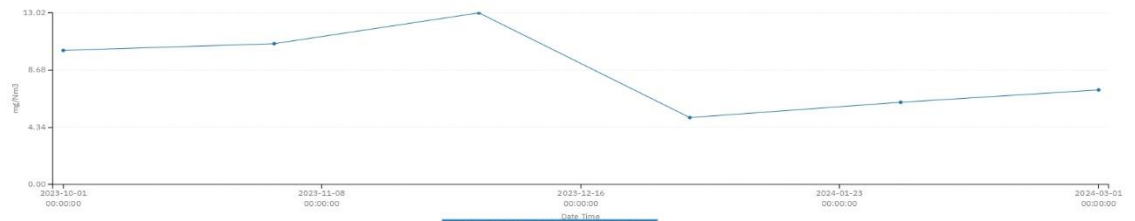
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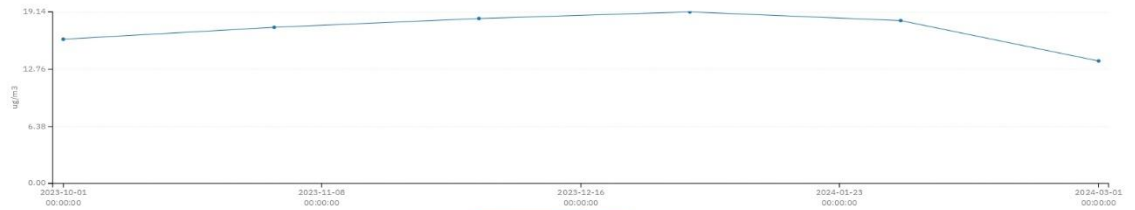
MSAND_STACK-PM_Raw



CEMENT_MILL_VRM3_STACK-PM_Raw



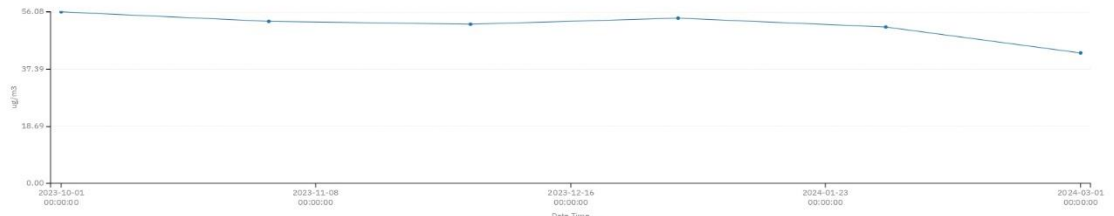
Clinker_shed-PM10_Raw



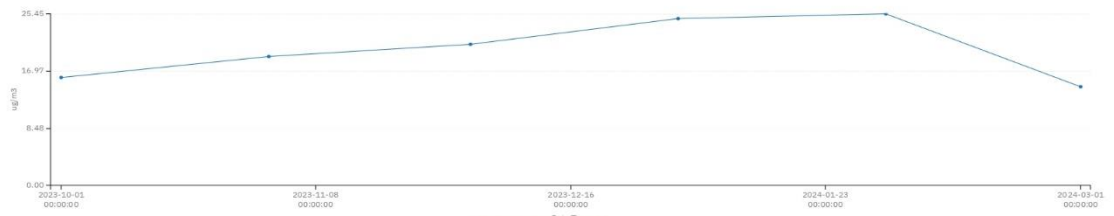
Clinker_shed-PM2.5_Raw

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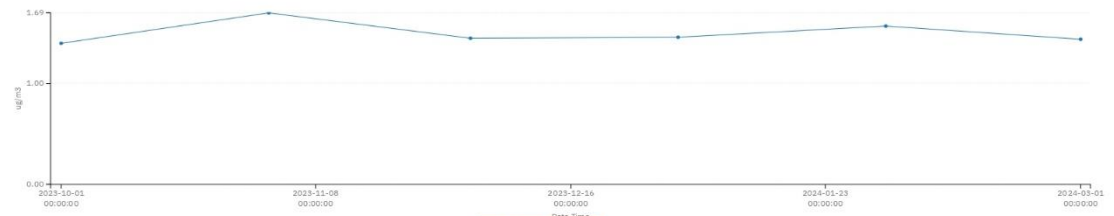
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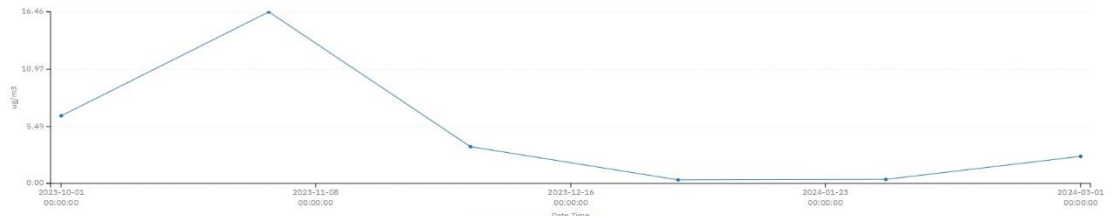
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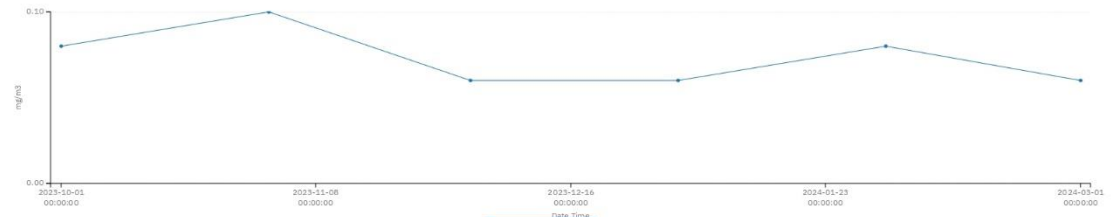
LDO_Tank-PM2.5_Raw



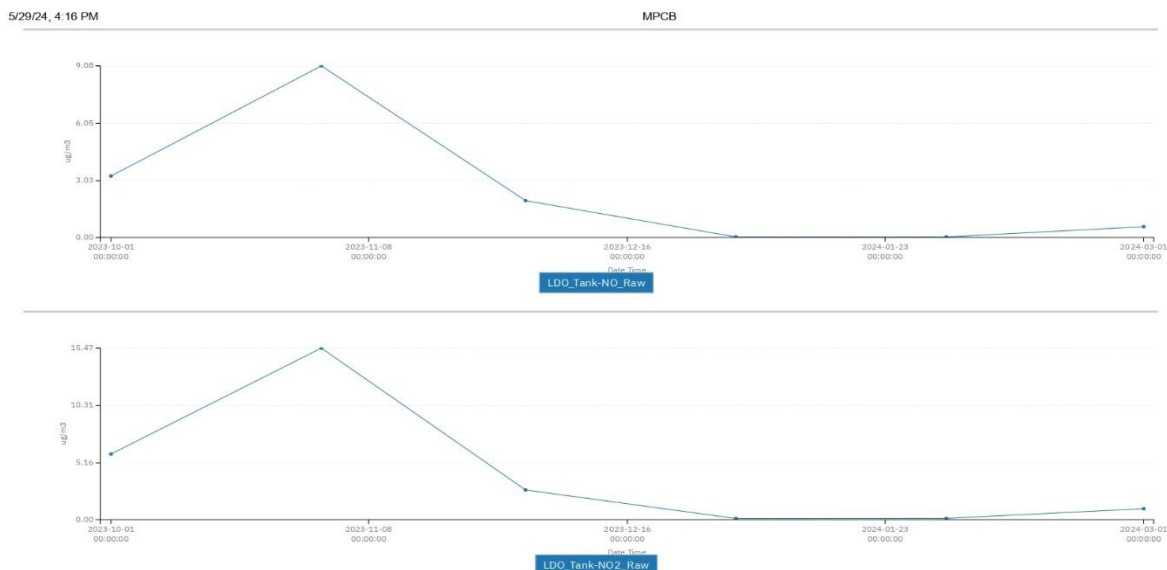
LDO_Tank-SO2_Raw




LDO_Tank-NOx_Raw



LDO_Tank-CO_Raw



Showing Online continuous emission monitoring system graph

ii	The PP should ensure treatment of effluent from cement plant.	Complied. There is no effluent generation from the cement manufacturing process.		
iii	The commitment made by the PP for plantation of the green belt over 33% of project area should be expedited. Three rows of green belt, 12- 15 meters wide, all along the periphery of the plant should be planted.	<p>We have started green belt development all along the periphery of the plant and we will comply to the stated requirement.</p> <table><tr><th>Species planted</th></tr><tr><td>Banyan,Bael,Champa,Neem,Ashoka,Sheesham,christmas,peepal,badm,coconut trees, peltophorum ,cluster, kikar, reetha ,avla, drumstick, gulmohar, mango, gauva, cashew,dolar,royal,palm,tamrind,rubber,kar anj,acacia,palas,chiku,sweet apple, bakulla, rain tree, niva, neelgiri, cykash, jamun, banana, suru, conocorpus, papaya</td></tr></table>  <div>Latitude: 18.681289 Longitude: 73.039165 Elevation: 28.44±3 m Accuracy: 22.5 m Time: 05-29-2024 12:55 Notes: Greenbelt</div> <div>Powered by NoteCam</div>	Species planted	Banyan,Bael,Champa,Neem,Ashoka,Sheesham,christmas,peepal,badm,coconut trees, peltophorum ,cluster, kikar, reetha ,avla, drumstick, gulmohar, mango, gauva, cashew,dolar,royal,palm,tamrind,rubber,kar anj,acacia,palas,chiku,sweet apple, bakulla, rain tree, niva, neelgiri, cykash, jamun, banana, suru, conocorpus, papaya
Species planted				
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iv	<p>The CSR plan as submitted by the PP in the area of health care, rural infrastructure development, education, sports and cultural activity, Swachh Bharat Abhiyan with respect to the earlier projects and the ongoing project at Dolvi site are very slow in implementation. The CSR activities should be implemented expeditiously and simultaneously with the implementation of the project, and annual report on CSR activity should be submitted to the Ministry.</p>	<p>Complied.</p> <p>The EC has been transferred from M/s JSW Steel Limited and as per point No. 8 of the EC letter F.No. J-11011/76/2013- IA.II(I), dated 23-01-2018, implementation of ESC and CSR shall be the responsibility of the JSW Steel Ltd., the parent company. Annual report on CSR has been submitted to the Ministry by M/s JSW Steel Ltd.</p>
v	<p>At least 5% of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent should prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector- wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration.</p>	<p>Complied.</p> <p>The EC has been transferred from M/s JSW Steel Limited and as per point No. 8 of the EC letter F.No. J-11011/76/2013- IA.II(I), dated 23-01-2018, implementation of ESC and CSR shall be the responsibility of the JSW Steel Ltd., the parent company. Annual report on CSR has been submitted to the Ministry by M/s JSW Steel Ltd.</p> <p>Copy of the above referred letter is enclosed</p>

	<p>The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head should be created and the annual capital and revenue expenditure on various activities of the Plan should be submitted as part of the Compliance Report to RO, at Bhopal. The details of the CSR Plan should also be uploaded on the company website and should also be provided in the Annual Report of the company.</p>	
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Environment Clearance of JSW Steel

F. No. J-11011/76/2013-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003
E-mail: sharath.kr@gov.in
Tel: 011-24695319

Dated: 23rd January, 2018

To
The President,
M/s JSW Steel Ltd,
Geetapuram, Dolvi, Taluka: Pen,
District: Raigad, Maharashtra 402107
Tel: (02143) 246000/2467000/277501-15; Fax: (02143) 277533-42

Subject: Expansion of Integrated Steel Plant (5 MTPA to 10 MTPA) and Gas Based Power Plant (300 MW to 600 MW) at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra by M/s JSW Steel Limited - Amendment in Environmental Clearance regarding.

Sir,

This has reference to your online proposal no. IA/MH/IND/41055/2015 dated 15th January, 2016; IA/MH/IND/16771/2012, dated 10th August 2016 and your communications dated 8th February 2017; 23rd May 2017; 22nd June 2017; 20th July 2017; and 2nd November 2017 for partial transfer of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA 'Coke-Oven including by-product plant' to M/s Dolvi Coke Projects Limited and 10 MTPA Slag & Clinker Grinding unit to M/s JSW Cement Limited respectively from M/s JSW Steel Limited.

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

3.0 The proposal was considered in the Expert Appraisal Committee (Industry-I) in its 19th meeting held during 8th - 9th June 2017; 20th meeting held during 10th - 11th July 2017 and 21st meeting held during 10th - 11th August, 2017.

4.0 After detailed deliberations, the committee recommended for the transfer of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA 'Coke-Oven including by-product plant' to M/s Dolvi Coke Projects Limited (new company) and 10 MTPA Slag & Clinker Grinding unit to M/s JSW Cement Limited (new company) from M/s JSW Steel Limited (parent company) with specific and general conditions which are agreed by project proponent during the EAC meeting.

5.0 The Ministry of Environment, Forest and Climate Change, based on the recommendations of the Expert Appraisal Committee (Industry-I), decided to transfer the Environmental Clearance of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA 'Coke-Oven including by-product plant' to M/s Dolvi Coke Projects Limited (new company) and 10 MTPA Slag & Clinker Grinding unit to M/s JSW Cement Limited (new company) from M/s JSW Steel Limited (parent company) located at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra under clause 11 of EIA Notification, 2006 and subsequent amendments.

6.0 The environmental clearance vide letter no. J-11011/76/2013-IA.II(I) dated 25th August 2015 will be henceforth exclusive of 1.0 MTPA Coke-Oven Plant; 2.5 MTPA Coke-Oven including by product plant; and 10 MTPA Slag & Clinker Grinding unit.

7.0 All the conditions stipulated in environmental clearance vide letter no. J-11011/76/2013-IA.II(I) dated 25th August 2015 will be remain unchanged.

8.0 Implementation of the Enterprises Social Responsibility (ESR) and CSR; no change in the pollution load; and no conflict in sharing in common facilities in day to day operations shall be responsibility of the parent company i.e. JSW Steel Limited.

9.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

10.0 This letter is issued in partial modification of the J-11011/76/2013-IA.II(I) dated 25th August 2015.

11.0 Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

This issues with the approval of Competent Authority.


(Sharath Kumar Pallerla)
Scientist 'F' / Director

Copy to:-

1. **The Secretary**, Department of Environment, Govt. of Maharashtra, Mantralaya, Mumbai.
2. **The Secretary**, Department of Forests, Govt. of Maharashtra, Mantralaya, Mumbai
3. **The Additional Principal Chief Conservator of Forests**, Regional Office (WCZ), Ministry of Environment, Forest and Climate Change, Nagpur
4. **The Chairman**, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
5. **The Member Secretary**, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. **The Chairman**, Maharashtra Pollution Control Board, Kalpatru Point, Sion Circle, Sion (East), Mumbai-400 022, Maharashtra.
7. **The District Collector**, Raigad District, Maharashtra.
8. **Guard File / Record file / Monitoring file.**
9. **MOEF&CC Website.**




(Sharath Kumar Pallerla)
Scientist 'F' / Director

vi	No development should be done on the creek-ward side of the land. Land area between HTL to 100 mts or width of the creek, whichever is less, on the landward side should be kept free from any type of development.	Complied. No developments works are being carried out on the creek ward side of the land.
vii	Full utilization of BF slag should be implemented. The details should be submitted along with 6 monthly compliance reports.	Complied. BF Slag generated by JSW Steel from 01-10-2023 to 31-03-2024 is 1201356 MT BF Slag consumed by JSW Cement from 01-10-2023 to 31-03-2024 is 1206231 MT (Including the previous stocks)
viii	No waste water will be discharged outside the plant boundary during normal operation. In case it become necessary to discharge effluent meeting norms fit to the marine environment, permission of the relevant authority should be obtained.	Complied. We are not letting out or discharging any waste water outside the premises. Our is a Zero Liquid discharge plant. All the generated waste water is being treated in STP of capacity 50 KLD and the treated water is utilized for dust suppression and gardening.
ix	No untreated effluent should be reused for any process.	Complied. As there is no effluent generation in our cement manufacturing process.
x	Measures should be taken to reduce PM levels in the ambient air. Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. should be provided to keep the emission levels below 50 mg/Nm ³ and installing energy efficient technologies in the Plant	Complied. We have taken following mitigational measures for reducing PM levels in the ambient air: a) Silos for storage of clinker & cement b) Covered belt conveyors and covered shed for storage of gypsum c) Concrete paved roads for vehicle movement d) Cement Mill is equipped with Pulse Bag House and chimney with 48 mtr height and 3.5 mtr diameter e) Bag filters at all the material transfer points. The bag house and bag filters are designed to meet the outlet emission standards of < 30 mg/Nm ³ We have also Installed online continuous emission monitoring system (OCEMS) in the cement mill stack. Latest technology energy efficient equipment has been provided to conserve energy to the extent possible. b) Covered belt conveyors



e) Bag house



		
Xi	<p>On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices. Gaseous emission levels including secondary fugitive emissions from all the sources should be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.</p>	<p>Complied.</p> <p>JSW Cement plant is established within JSW Steel complex where five numbers of CAAQMS 24x7 are installed at the periphery of the steel complex and these are connected to CPCB & MPCB servers.</p> <p>In addition, JSWCL has also installed 2 nos of CAAQMS in the existing cement plant premises with connectivity to CPCB & MPCB. These analyzers also measure the ambient air quality of new unit which is in close proximity to the existing plant. Further, we have also installed online continuous emission monitoring system (OCEMS) in the cement mill stack. Emissions from all the sources are being maintained below the prescribed norms. Guidelines/code of practice issued by the CPCB will be followed in our plant.</p> <p style="text-align: center;">AAQMS STATION 1</p> 

		<p>AAQMS STATION 2</p>  <p>AAQMS STATION NO-02</p> <p>Latitude: 18.683457 Longitude: 73.037044 Elevation: 31.53±12 m Accuracy: 23.3 m Time: 05-29-2024 13:10 Note: AAQMS2</p> <p>Powered by: NoteCam</p>
	<p>Dust suppression system and bag filters should be installed to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points.</p>	<p>Complied.</p> <p>We have installed dust suppression system and bag filters at conveyors and material transfer points, product handling, loading and unloading points to control the fugitive dust emission. Further regular water sprinkling is done through water tanker in unpaved areas to control fugitive emission in the premises. The Details of Bag Filters installed are listed below:</p>  <p>Latitude: 18.681773 Longitude: 73.038245 Elevation: 25.83±4 m Accuracy: 21.4 m Time: 11-27-2023 09:12 Note: Road Sweeping Machine</p> <p>Powered by: NoteCam</p>  <p>Powered by: NOTES PRO CAMERA</p>


JSW Cement Ltd., Dolvi, 3.6 MTPA Cement Grinding Unit				
DETAILS OF AIR POLLUTION CONTROL EQUIPMENTS				
S.No.	Bag Filter No.	Capacity flow (M3/Hr)	Qty in Nos.	Area
1	581BH1 (Bag House)	297000	1800	RP 1&2
2	582BH1 (Bag House)	297000	1800	
3	531BF1	10000	80	
4	531BF2	8000	64	
5	531BF3	12000	96	
6	531BF1B	8000	64	
7	531BF1A	8000	64	
8	531BF4	18000	140	
9	551BF1	25000	196	
10	551BF2	8000	64	
11	591BF1	5000	40	
12	591BF2	10000	80	
13	552BF1	25000	196	
14	552BF2	8000	64	
15	151BF01	8000	64	Material Handling
16	151BF02	8000	64	
17	471BF01	31500	220	
18	471BF02	6000	72	
19	481BF01	12000	96	
20	481BF02	12000	96	
21	481BF03	8000	64	
22	481BF04	8000	64	
23	481BF05	19500	152	
24	610BF01	5000	40	New GGBS Silo
25	611BF02	7000	56	
26	611BF03	7500	60	
27	300 BF.1	145200	1280	M-SAND
28	563BF01	15500	130	VRM-3
29	573BF02	8800	72	
30	573BF03	13700	110	
31	573BF04	9300	80	
32	573BF05	11000	90	
33	573BF06	7500	64	
34	583BF01	7000	64	
35	583BF02	6000	48	
36	583BF03	5000	40	
37	583BF04	4000	36	
38	573BF01 (Bag House)	990000	3028	CLINKER SILO
39	141BF01	12650	121	
40	141BF02	12650	121	
41	141BF03	25000	225	
42	141BF04	6250	56	
43	141BF06	6250	56	
44	141BF07	6250	56	
45	141BF09	10200	90	
46	141BF11	12600	110	
47	141BF12	6400	56	

xiii	Water consumption should not exceed as per the CREP standard prescribed for the steel plants. Additional water, if any, required for the plant project operations. Should be met from rainwater stored in rainwater harvesting structures.	Complied. This specific condition is applicable for Steel plant. We are complying with the CREP standard as applicable for cement industry. The compliance status of CREP is attached
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Corporate Responsibility for Environmental Protection (CREP) Compliance Report


S. No	Conditions	Compliance
1	Cement Plants, which are not complying* with notified standards, shall do the following to meet the standards: • Augmentation of existing Air Pollution Control Devices — by July 2003 • Replacement of existing Air Pollution Control Devices — by July 2004	We have installed air pollution control devices to control the stack particulate emissions below 30 mg/Nm ³
2	Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100 mg/Nm ³ limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm ³ .	Not Applicable
3	The new cement kilns to be accorded NOC/Environmental Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/Nm ³ for particulate matter emissions.	We shall maintain the particulate emissions below 30 mg/Nm ³
4	CPCB will evolve load based standards by December 2003.	Not Applicable. As our plant is standalone grinding unit.
5	CPCB and NCBM will evolve SO ₂ and NO _x emission standards by June 2004.	Not Applicable. As our plant is standalone grinding unit.
6	The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendations within three months.	The following measures have undertaken to control fugitive emission from different sources: 1. All the transfer points are provided with Bag Filters with adequate extraction volume. 2. Plant roads/ approach roads and open areas in between different sections of plant are made up of bitumen/concrete and will be regularly swept. 3. Covered sheds are provided for storage of Clinker and Gypsum 4. Regular preventive maintenance of pollution control equipment and good housekeeping within the premises
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.	Not Applicable. As our plant is standalone grinding unit.

8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003.	Continuous dust monitoring system provided in cement mill stack for measuring particulate emissions.
9	Trippings in kiln ESP to be minimized by July 2003 as per the recommendation of NTF.	Not applicable. As our plant is standalone grinding unit.
10	Industries will submit the target date to enhance the utilization of waste material by April 2003.	Plant is designed for PSC, PPC, CC and GGBS production and currently we are utilizing slag which is an industrial by-product from steel plants.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Not Applicable. As our plant is standalone grinding unit.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	Not applicable. As our plant is standalone grinding unit.

xiv	Rainwater harvesting scheme should be prepared so that the rainwater can be collected, re-used and may be used for ground water recharge. The concrete drains should be de-silted and regular supervision of the areas should be carried out so that blocking of drains may be avoided for quick discharge of rainwater. Efforts should further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement	<p>Complied. Rainwater harvesting has been implemented for groundwater recharge. Concrete drains are desilted before monsoon and regular supervision of the same is being carried out regularly.</p> <p>RAINWATER HARVESTING</p> 
xv	All the effluents should be treated and reused for dust suppression/ green belt development. No effluent should be discharged and 'zero' discharge should be adopted.	<p>Complied. There is no effluent generation from the cement Manufacturing process. However, an STP is installed for treating the waste water</p>
xvi	Full utilization of fly ash should be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash should be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding should be submitted to the Ministry's Regional Office at Bhopal.	<p>Noted. At present we are not using any ash for manufacturing of cement. The same shall be complied whenever we start using fly ash.</p>
xvii	Hazardous materials required during construction phase and in plant operations should be stored properly as per the regulations and reused/recycled as per the E(P)A Rules.	<p>Complied. Hazardous waste is being stored in a proper manner as per the regulations.</p>
xviii	Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.	<p>Complied. All the vehicles and construction machineries are maintained properly through regular servicing, So that the noise generation is reduced to meet the prescribed standards.</p>
xix	Risk and Disaster Management Plan along with the mitigation measures should be prepared and implemented.	<p>Complied. Risk & Disaster management plan has been prepared with mitigation measures and the same has been implemented.</p>

xx	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	Complied. We have implemented all the recommendations of the Charter on Corporate Responsibility (CREP) for Environment Protection applicable for cement plants/ cement grinding units.
xxi	All the commitments made to the public during public hearing/public consultation Should be satisfactorily implemented and adequate budget provision should be made accordingly.	Complied. All the commitments made to the public during the PH are being complied and implemented by JSW Steel as per the budget provisions.
xxii	All the permanent workers should be covered under ESI Scheme. The company should have the provision for treatment of its workers at the local Nursing Homes & Hospitals in case of emergency. Annual Medical Checkup on some medical parameters like Blood test, Chest X-Ray, Eye test, Audiometric, Spirometry etc. should be conducted amongst the employees of the Company.	Complied. For the wellbeing of the workers an occupational health centre (OHC) is provided within the steel plant complex with 24x7 ambulance facility availability at the cement plant to meet any medical emergency. In addition to this, we have also constructed Sanjeevani Hospital run by JSW group to meet any medical emergencies. Also annual medical examination for the employees and workmen covering all the medical parameters are being carried out through sanjeevani hospital.
B	General Conditions	
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board and the State Government.	Agreed. We are strictly adhering to the stipulation made by MPCB and state government.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC).	Agreed. No further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC).
iii	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.	Complied. JSW Steel has installed five numbers of CAAQMS 24x7 at the periphery of the steel complex and these are connected to CPCB & MPCB servers. In addition, JSWCL has also installed 2 nos of CAAQMS in the existing cement plant premises for monitoring concentration of PM10, PM2.5, SO2 and NOx with connectivity to CPCB & MPCB. These analyzers also measure the ambient air quality of new unit which is in close proximity to the existing plant. The Data on ambient air quality and stack emission are being regularly submitted to SPCB in half yearly basis.

IV	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	<p>Complied.</p> <p>We have a STP of capacity 50CMD to treat domestic waste water and treated water is being used for gardening as well as water sprinkling on the road for dust suppression purpose.</p> <p style="text-align: center;">STP</p> 
v	The overall noise levels in and around the plant area shall be kept well within the standards (85 dB A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz, 75 dBA (day time) and 70 dBA (night time).	<p>Complied.</p> <p>The overall noise levels in and around the plant area are maintained below the prescribed norms by taking appropriate noise control measures.</p>
vi	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	<p>Complied.</p> <p>We are carrying out occupational health surveillance of the workers on regular basis and the record shall be maintained as per the factory act requirement.</p>
vii	The company should develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	<p>Complied.</p> <p>We have already developed rain water harvesting structures to harvest the rain water and same is being utilized in lean season.</p>



VIVAAN WATER & ENVIRO SOLUTIONS PVT. LTD.
CONSULTANTS : RAINWATER HARVESTING & WATER MANAGEMENT

Head Office : Planet Industrial Premises C. S. Ltd.,
205 B Wing, 2nd Floor, Subhash Road, Opp. SBI Bank,
Vile Parle (East), Mumbai-400 057 Tel: 02240236842
M : +91 9892702228 / +91 9867344735
Email : vivanwatersolutions@gmail.com
Website: www.vivanwatersolutions.com

21/05/2021

To,
JSW Cement Limited
Dolvi Unit,
Village - Khar Karavi,
PO - Gadab, Tal.-Pen,
Raigad, Maharashtra -402107



Sub: Certificate for Completion of implementation of Rooftop Rain Water Harvesting System of Admin Building of M/s JSW Cement Limited, Dolvi Unit, Village -Khar, Karavi, Tal. - Pen, Dist. - Raigad-402107, Maharashtra.

Dear Sir,


This is to certify that Roof Top Rain Water Harvesting System designed by us for Admin Building of M/s JSW Cement Limited, Dolvi Unit, Village, Khar, Karavi, Tal. - Pen, Dist. - Raigad-402107, Maharashtra has been successfully implemented as shown in the attached plan

Please accept completion certificate for the same.

Thanking You,
Yours truly,

For, M/s Vivaan Water & Enviro Solutions Pvt. Ltd.

Nirav Saraiya


viii	The project proponent should also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.	<p>Complied.</p> <p>All the environmental protection measures as recommended in the EIA/EMP are duly complied.</p> <p>We will continuously implement various CSR programs as per the CSR plan in association with JSW Steel, the parent company.</p>
ix	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Nagpur. The funds so provided shall not be diverted for any other purpose.	<p>Complied.</p> <p>We have earmarked INR 55 Crore and INR 2.5 crore towards capital cost & recurring cost/annum respectively for environment protection and pollution control measures for 10 MTPA cement project. However, presently, we have installed only 3.6 MTPA capacity plant for which INR 8.0 Crore and INR 1.00 crore has been earmarked for capital and recurring expenditures respectively. Till now, we have spent INR 7.52 Crore as capital expenditure towards implementation of EMP.</p> <p>The earmarked funds will not be diverted of any other purposes.</p>
x	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	<p>Complied.</p> <p>Copy of the Environment clearance letter has been sent to the concerned authorities and the same has been uploaded on our company website and can be seen at the below link: https://www.jswcement.in/wp-content/uploads/2020/08/EC-transfer-10.0-MTPA-to-JSW-Cement-Dolvi.pdf</p>
xi	The project proponent shall upload the status of compliance of the stipulated environment clearance 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 the MOEFCC at Nagpur. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10 SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<p>Complied.</p> <p>The Status on EC compliance of the stipulated conditions including results of monitored data is being uploaded on the company website regularly. The criteria pollutant levels namely, SPM, RSPM, SO2 and NOx (ambient levels as well as stack emissions) are being monitored regularly through NABL Accredited laboratory and submitted to the board office. Also online data for stack and ambient air are electronically displayed near the main factory entrance.</p>

		<p>Display board at the main gate for displaying the monitored parameters for public is installed.</p> 
Xii	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by-mail) to the Regional, Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore / CPCB SPCB shall monitor the stipulated conditions.</p>	<p>Complied.</p> <p>Six monthly compliance reports are being uploaded regularly in the Parivesh 2.0 portal regularly well within the specified timeline.</p>
Xiii	<p>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 company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Nagpur by e-mail</p>	<p>Complied.</p> <p>The Environment Statement in Form V is regularly submitted to the Maharashtra State Pollution Control Board through ecmpcb portal and is also put on the website of the Company along with the status of compliance of EC conditions. The Copy of recently submitted Form-V is enclosed below:</p>



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-0000060872

Submitted Date

29-09-2023

PART A

Company Information

Company Name

JSW Cement Limited, (Cement Grinding Unit)

Application UAN number

MPCB-CONSENT- 0000159412/CO/2307001130

Address

95,96 & 98,VIII - Khar Karavi, PO.-Gadab, Tal-Pen,Dist-Rajgad.

Plot no

NA

Taluka

Pen

Village

Khar Karavi

Capital Investment (In lakhs)

23084

Scale

Large

City

Pen

Pincode

402107

Person Name

Manish Pujari

Designation

Unit-Head (GM)

Telephone Number

9449598309

Fax Number

02143277725

Email

manish.pujari@jsw.in

Region

SRO-Rajgad II

Industry Category

Red

Industry Type

R26 Cement

Last Environmental statement submitted online

yes

Consent Number

No:- Format1.0/CAC/UAN No.MPCB-CONSENT-0000159412/CO/2307001130

Consent Issue Date

2023-07-18

Consent Valid Upto

2028-03-31

Establishment Year

2018

Date of last environment statement submitted

Sep 12 2022 12:00:00:00AM

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

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Ordinary Portland Cement (OPC)	360000	345910	Ton/Y
Portland Pozzolana Cement (PPC)	40000	0	Ton/Y
Composite Cement (CC)	40000	0	Ton/Y
Ground Granulated Blast Furnace Slag (GGBS)	500000	492815	Ton/Y
Portland Slag Cement (PSC)	260000	0	Ton/Y

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	129.00	128.99
Domestic	15.00	14.98
All others	10.00	9.99
Total	154.00	153.96

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	0	0	CMD
Domestic effluent	10	8	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
Ordinary Portland Cement (OPC)	0	0	
Portland Pozzolana Cement (PPC)	0	0	
Composite Cement (CC)	0	0	
Ground Granulated Blast Furnace Slag (GGBS)	0	0	
Portland Slag Cement (PSC)	0	0	

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
Granulated Slag for Ground Granulated Blast Furnace Slag (GGBS)	1.00	1.00	Ton/Ton
Clinker for Ordinary Portland Cement (OPC)	0.873	0.883	Ton/Ton
Slag for Ordinary Portland Cement (OPC)	.0878	0.0817	Ton/Ton
Chemical Gypsum0187	0.0187	0.017	Ton/Ton
Anhydrite Gypsum	0.0206	0.017	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Blast Furnace Gas	15600000	0	M3/Month
Coke Oven Gas	3240000	1877246.219	M3/Month
LDO	13200	0	M3/Month

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
Nil	0	0	Nil	Nil	Nil

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/MM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
TPM	71.16	13.58	0	30	Good Control

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	0	MT/A

2) From Pollution Control Facilities

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

Part-E

SOLID WASTES

1) From Process

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

2) From Pollution Control Facilities

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

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	MT/A	NA

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)
Air Pollution	0	0	0	0	1.16	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)
Power cost, Filter Bags and Cage cost	To control dust emission	936.11
Green Belt Development	To develop garden and plantation	2.92

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Green Belt Development	Tree Plantation and Gardening	2.15

Part-I

Any other particulars for improving the quality of the environment.

Particulars

NA

Name & Designation

Manish Pujari- Unit Head (GM)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000060872

Submitted On:

29-09-2023

xiv	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MOEFCC) at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Nagpur.	Complied. As stipulated, we have uploaded copy of the Environment clearance on our company website. https://www.iswcement.in/wp-content/uploads/2020/08/EC-transfer-of-10.0-MTPA-to-JSW-Cement-Dolvi.pdf We have advertised our Environment Clearance in local newspapers (i.e. Krushival & Free Press Journal) which are widely circulated in the region and copy of the same was submitted to Regional office, MoEF&CC.
xv	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied. Date of financial closure: 31 st March 2021 Date of final approval: 20 th December 2016 Date of commencement of land development work: 10 th January 2017
14	M/s JSW Cement limited shall abide by all the commitments and recommendations made in the EIA/EMP report and that during presentation to the EAC; commitments made during the Public hearing held on 28.01.2014 for Integrated Steel Plant.	Noted and being complied. We will abide all the commitments and recommendations made in the EIA/EMP. The Public hearing commitments is being carried out by JSW Steel as per the point No. 8 of the EC letter F.No. J-11011/76/2013- IA.II(I), dated 23-01-2018
15	The Ministry may revoke or suspend the clearance, If implementation of any of the above conditions is not satisfactory.	Agreed.
16	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions	Agreed.
17	The PP shall ensure no change in the pollution load; and no conflict in sharing in common facilities in day to day operations	Agreed.
18	All the liabilities regarding environmental issues of slag and clinker grinding unit will be the responsibility of the new company i.e. M/s JSW Cement Ltd.	Agreed.
19	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.	Agreed.

20	This Environmental Clearance is partial modification of the J-11011/76/2013-IA II (I) dated 25 th August 2015.	Agreed.
21	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed.

SUB: - Compliance status of Hon'ble National Green Tribunal (NGT) order dated 04.03.202 in the matter of OA No. 165 Of 2020 (Pb) [Earlier OA No. 122 Of 2015 (Wz) titled as Samita Rajendra Patil Vs Jindal Steel Works Ltd., & Ors. regarding air pollution, slag disposal, mangrove cutting etc.

Ref: - E-mail towards Application for renewal of consent in respect of M/s JSW Cement Limited, Vill-Khar Karavi, PO - Gadab, Tal - Pen, Dist - Raigad. UAN-0000130421

Dear Sir,

Please find the compliance status of above cited subject matter: -

Measures for Air Pollution Control:

JSW Cement Ltd is committed to provide a pollution free environment to the society at large as part of Company's Corporate Environment Responsibility. We have been taking all the measures as stipulated in the Environment Clearance as well as Consent orders of the Board. In the background of the reference cited above we are herewith furnishing the measures implemented by JSW Cement for prevention and control of air pollution:

1. High efficiency Bag Houses in Cement Mill/ Slag Mills designed to control stack particulate emissions below 30 mg/Nm³ List of Pollution Control Equipment attached
2. Bag filters are installed at all material transfer points. The dust collected in the bag filters is automatically recycled in the system.
3. Regular water sprinkling on roads and unpaved areas for dust suppression
4. All internal roads are concreted
5. All the conveyors and transfer point hoods are covered with GI sheets
6. Clinker, Fly Ash, GGBS and cement are stored in concrete silos
7. Online monitoring of Stack and ambient air quality emissions
8. JSW Cement is using cleaner fuels (Coke Oven Gas/ BF Gas) for slag drying and hence no gaseous emissions such SO₂ and NO_x are generated from the cement manufacturing process.



Part of O. P. Jindal Group

Regd. Office: JSW Centre,
Bandra Kurla Complex,
Bandra (E), Mumbai - 400 051
Phone : +91 22 42861000
Fax : +91 22 42863000



JSW Cement Limited

Village - Khar Kanvi, P.O. - Gadakh,
Taluka-Pan, Dist. Raigad,
Maharashtra - 402 107
CIN - U22007MH2000PLC160839
Board - +91-2143-277-601/2/3
Fax: +91-2143 - 277-725

With all the above measures, the stack emission as well as ambient air quality are well within the norms and the same is evidenced from the online as well as 3rd party monitoring reports.

Slag Disposal:

JSW Cement, across the country has over the period focused its activities on production of green cements considering the need for Climate Change initiatives. In addition to production of eco-friendly Portland Slag, Pozzolana Cement and GGBS, the company has taken several new initiatives like manufacture of composite cements, M-Sand as alternative to river sand in order to utilize the waste generated from steel plants /power plants thus helping in scientific disposal of the wastes such as BF Slag and Fly Ash.

The entire BF Slag of JSW Steel, Dohi is utilized by JSW Cement in the production of value added eco-friendly products such as Portland Slag Cement, GGBS and M-Sand. (Environmental Statement Attached)

Mangrove Cutting:

The cement plant premises do not fall in the Coastal Regulation Zone (CRZ) as evident from the map authenticated by the National Centre for Sustainable Coastal Management (NCSCM), Chennai as attached as Annexure-1.

Yours Faithfully
For JSW Cement Limited

Sanjay Jadhav
Authorized Signatory

Enclosed: • Pollution Control Equipment list
Environmental Statement
Coastal Regulation Zone (CRZ)



Part of Q. P. Jindal Group

Regd. Office JSW Centre,
Bandra Kurla Complex,
Bandra (E), Mumbai - 400 051
Phone : +91 22 42881000
Fax : +91 22 42883000

For JSW Cement Limited
Authorized Signatory

Manish Pujari
(Unit Head)