Half Yearly Compliance Report 2025 01 Jun(01 Oct - 31 Mar)

Acknowledgement

	Troposed Cement Tunit (Tuni Cimiler Troubletion
	Capacity of 12.0 MTPA, Calcined Clay Production
	Capacity-1.5 MTPA, Cement Production Capacity 5.0
	MTPA (OPC/PPC/PSC/Composite Cement/LC3/PLC),
Proposal Name	WHRB based Power Plant - 54 MW, DG Sets of 6000
_	KVA, Oxygen Plant of capacity 160 m3/hr, AFR Pre-
	Processing/Co-processing Facility and Railway siding
	with wagon tippler at Village-Bhadana & Jindas, Teh-
	Nagaur, Dist-Nagaur, Rajasthan-341001

Name of Entity / Corporate Office JSW Cement Limited

Village(s) CHAK GHSAIYA DEN

District NAGAUR

Proposal No.	IA/RJ/IND1/432291/2023
Plot / Surve <mark>y / Khasra</mark> No.	N/A
State	RAJASTHAN
MoEF File No.	IA-J-11011/355/2022-IA- II(IND-I)

Category	Industrial Projects - 1
Sub-District	Nagaur
Entity's PAN	*****6731B
Entity name as per PAN	JSW Cement Limited

Proposed Cement Plant With Clinker Production

Compliance Reporting Details

Reporting Year 2025

Remarks (if any)

Submitting the Six Monthly EC Compliance Report for the period:

October-2024 to March-2025.

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office

JSW Cement Limited

	Project Area as per EC Granted	Actual Project Area in Possession
Private	192.484	178.757
Revenue Land	2.072	0
Forest	0	0
Others	0	0
Total	194.556	178.757

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Clinker	Million Tons per Annum (MTPA)	N/A	12.0 (Kiln - 3 x 12000 TPD)	Project is yet to be commissioned.	NA
2	Calcined Clay	Million Tons per Annum (MTPA)	N/A	1.5 (Clay Calciner System 2x2300 TPD)	Project is yet to be commissioned.	NA
3	Cement (OPC /PPC /PSC /Composite Cement /LC3 /PLC)	Million Tons per Annum (MTPA)	N/A	5.0 (Cement Mill - 2 x 350 TPH)	Project is yet to be commissioned.	NA
4	WHRB Based Power Plant	MW	N/A	54 (3 X 18 MW)	Project is yet to be commissioned.	NA
5	DG Sets	Others:KVA	N/A	6000 (3 x 2000 KVA)	Project is yet to be commissioned.	NA
6	Oxygen Plant	Cu.M/Hr	N/A	160	Project is yet to be commissioned.	NA
7	AFR Pre- processing and Co- processing Facility	Tons per Day (TPD)	N/A	Part of Project (Approx. 3750 TPD)	Project is yet to be commissioned.	NA
8	Railway Siding with Wagon Tippler	Tons per Day (TPD)	N/A	Part of the Project (Approx. 62500 TPD)	Project is yet to be commissioned.	NA

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

Ssion: Agreed to Comply Date: 28/05/2025

2 MISCELLANEOUS The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents

submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

PPs Submission: Agreed to Comply

Project construction and erection activities are under progress. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures are being implemented for construction/erection of project.

Date: 28/05/2025

3 MISCELLANEOUS

Eight Families (1 family from Bhadana village and 7 families from Jindas village) reside inside the project area. Also there is a hamlet with 4 families (50 m, NW), Hamlet (Jindas Ki Dhani) (0.60 km, NW), Jindas Village (1.5 km, NE), Village Manjhwas (2.6 km, N), Village Bhadana (2.0 km, SW) and Village Kishanpura (3.0 km, E) within the study area. There are approx. 16 other villages in 10 km radius study area. Project Proponent shall take appropriate environmental safeguard measures to minimize the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. Appropriate environmental safeguard measures are being implemented. 1. JSW have started the plantation activity and planted approx. 11000 nos. of tree sapling within plant premises to develop thick greenbelt towards the hamlet/villages closer to the plant boundary. 2. Water sprinkling arrangements through deployment of water tankers is being carried out regularly for suppression of fugitive emission at the source. 3. We have included Bhadana and Jindas villages in to environmental monitoring program and air quality monitoring is being carried out at both villages. 4. Mean of Ambient Air Quality Monitoring Report for the period: Jan-25 to Mar-25 is enclosed below: -

Date: 28/05/2025

4 MISCELLANEOUS

As committed, Company shall provide 2 nos. of buses for the village people and out of these two buses, one standard diesel bus shall be provided within 6 months whereas the another one will be an EV bus which will be provided within 2 years or earlier depending on the delivery period of the EV bus.

PPs Submission: Being Complied

One bus deployment has been approved and MoU has been signed from JSW for Bus deployment through RSRTC, Nagaur. RSRTC is waiting for route clearance and permit approval from Transport department. Once it is received, bus service may be started immediately.

Date: 28/05/2025

5 MISCELLANEOUS

The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEFCC in this regard.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. We are aligned to the net zero target of the Government of India (GoI) by 2070. The cement industry contributes approximately 7-8 percent of global CO2 emissions, positioning it as one of the most challenging sectors to decarbonize. While various strategies such as improving energy efficiency, using alternative fuels, and substituting clinker-help reduce emissions, Carbon Capture and Utilization (CCU) is increasingly recognized as a vital approach for achieving deep Decarbonization. JSW Cement, in partnership with premier institutions including IIT Kanpur, IIT Tirupati, IISc, Bangalore and CSIR-IIP, Dehradun are currently developing and testing two CCU test beds, recently approved by the Department of Science and Technology (DST), Govt. of India. These include Integrated Carbon Capture and Mineralization (ICCM) and Vacuum Swing Adsorption (VSA) technologies, which leverage carbonnegative mineralization to permanently lock CO2 into the construction value chain. These pilot

Date: 28/05/2025

projects underway at JSW Cement(s), Nandyal and Shiva Units, focus on capturing CO2 directly from kilns and reintegrating it into building materials. This approach not only enables a net reduction in carbon emissions but also reduces the need for mining, thereby conserving natural resources. Additionally, JSW Cement is committed to lowering its carbon footprint by substituting clinker with materials such as fly ash, slag, or activated clays, and by utilizing waste heat recovery systems to enhance energy efficiency. The company continues to explore and invest in CCUS technologies while recognizing the importance of developing a comprehensive national roadmap for CCUS in hard-to-abate sectors like cement. These technologies will be implemented across other JSW Cement units, if found suitable with progress reported to the Integrated Regional Office (IRO) of the Ministry of Environment, Forest and Climate Change (MoEFCC).

6

WATER QUALITY MONITORING AND PRESERVATION The water requirement of 4180 m3/day be met from saline ground water (3960 m3/day) after prior approval from competent authorities and through treated waste water (220 m3/day). As committed, the Company shall not use any groundwater in its premises except for drinking. Also, the Company shall not take drinking water from the Indira Gandhi Canal. PP shall implement the plan for sourcing treated sewage water from the STP of Nagaur municipality in place of groundwater for industrial purposes.

PPs Submission: Agreed to Comply

Project construction/erection activities are in progress. JSW is not using any groundwater in its premises except for drinking. Also, JSW is not sourcing any water from the Indira Gandhi Canal. As committed, JSW have signed a MoU with Nagar Parishad, Nagaur for procurement of treated STP water for industrial/greenbelt development purpose vide dated 13th Aug, 2024, valid till 12th Aug-2074. JSW has also obtained NOC from CGWA for ground water withdrawal 380 KLD for drinking and domestic purpose.

Date: 28/05/2025

7

MISCELLANEOUS

The PP shall complete the acquisition of the proposed project land and conversion for industrial purpose prior to commencement of proposed project.

PPs Submission: Being Complied

JSW has acquired 178.7565 ha. out of 194.556 ha. land till March, 2025 and our project construction and erection activities are under progress on the acquired land post conversion of the acquired land for industrial use.

Date: 28/05/2025

8

GREENBELT

Three tier Green Belt shall be developed in at least 33 percent of the project area with native species all along the periphery of the project site of adequate width in consultation with Central Arid Zone Research Institute (CAZRI) Jodhpur and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees and broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution and noise levels towards habitations. As committed, the Company shall plant 75,000 nos. of trees in this monsoon season, i.e. up to Oct, 23 and the maximum nos. of tree plantation shall be done by the end of 2024. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEFCC.

PPs Submission: Partially Complied

JSW had signed a MoU with CAZRI for availing consultancy services for Tree Plantation on 13th August, 2024 and is carrying out the plantation as per the recommendations of CAZRI team within the plant premises. So far approx. 11000 nos. of tree sapling are planted within plant premises. Apart from above approx. 102500 nos. of tree saplings have been planted/distributed around the project area, nearby Villages, Schools, Cremation Grounds, Sport Grounds, Grazing Land and Avenue

Date: 28/05/2025

Plantation etc. Compliance status of the same is being submitted to concerned Regional Office of the MoEFCC through Half yearly Compliance report. PP shall implement the R and R plan for the habitations involved 9 **MISCELLANEOUS** within the project area and also for purchase of private land. Date: **PPs Submission:** Being Complied 28/05/2025 R and R plan is being implemented for the habitations involved within the project area and also for purchase of private land as applicable. Transportation of limestone from mines shall be done only through overland belt conveyor (OLBC) for captive consumption in the 10 **MISCELLANEOUS** cement plant. However, the limestone, if sold to external users, shall be transported by road. PPs Submission: Being Complied Date: JSW is implementing the OLBC project for Transportation of limestone from mines for captive 28/05/2025 consumption in the cement plant and its construction / erection activities are in progress. However, the limestone, if sold to external users, it will be transported by road. PP shall undertake village adoption programme, prepare and 11 **MISCELLANEOUS** implement the action plan to develop them into model villages. PPs Submission: Being Complied Date: Project construction/erection activities are under progress. JSW has already adopted 5 villages i.e.: 28/05/2025 Bhadana, Jindas, Sarasani, Harima and Deh. Development plan of these villages had been prepared for 4 years in accordance with existing plan. Detailed activity wise implementation status is provided in above specific condition no. ix. The Company shall engage an external agency/ consultant for carrying out a detailed baseline survey in Nagaur and nearby districts 12. **MISCELLANEOUS** in order to evaluate the need for a cancer hospital in this region. Based on the outcome of the survey/ baseline study, the Company will contribute for the cancer hospital in due course of time. **PPs Submission:** Agreed to Comply Date: JSW is in the process of tendering stage for engaging an external agency/third party to conduct a 28/05/2025 baseline survey in Nagaur and nearby districts in order to evaluate the need for a cancer hospital in this region. We shall submit the findings of the study once the survey is complete and the report is received. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per 13 Statutory compliance the EMP in accordance to the Ministrys OM dated 30.09.2020 amounting to Rs. 70 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEFCC. **PPs Submission:** Being Complied Project construction/erection activities are under progress. Community development works has been Date: started in all nearby villages in the fields of: - Education, Health and Sanitation, Livelihood, Rural 28/05/2025 Infrastructure Development in line with our CER commitments made towards socio-economic development/requests raised by villagers during PH process. The implementation plan with progress i.e.: Activity wise detailed CER/CSR Report for the FY: 2024-25 is presented below. Also the same is being submitted to MoEFCC through this Half Yearly compliance report. The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State **MISCELLANEOUS** 14 Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned

Regional Office of the MoEFCC.

PPs Submission: Agreed to Comply

JSW had submitted the WLCP to the PCCF through CCF, Ajmer vide letter No.: F(16(29)Wildlife/CCF-Ajmer/2022-23/1226 dated 06/04/2023 and is awaiting for approval of the WLCP from PCCF, Jaipur, Rajasthan Recommendations will be implemented in consultation with the State Forest Department and report of the same will be submitted along with six-monthly compliance report, after the approval of WLCP by PCCF.

Date: 28/05/2025

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/construe to approvals/consent/permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

PPs Submission: Being Complied

JSW has obtained all the applicable Approvals / Permissions / Consents / NOCs before start of the construction and erection work as per applicable acts/rules.

Date: 28/05/2025

AIR QUALITY
MONITORING AND
PRESERVATION

The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. CEMS and CAAQMS, as prescribed, will be installed and connected with the SPCB and CPCB online servers before start of the operations.

Date: 28/05/2025

AIR QUALITY

MONITORING AND
PRESERVATION

The project proponent shall carryout Continuous Ambient Air Quality Monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOX in reference to SO2 and NOX emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.

PPs Submission: Being Complied

Project yet to be commissioned. Continuous Ambient Air Quality Monitoring will be done after commencement of plant operations. However, we have engaged a NABL and CPCB accredited laboratory for conduct of Ambient Air Quality Monitoring for the prescribed parameters within and outside the plant area. AAQM report is attached above in specific condition no.: v.

Date: 28/05/2025

4 AIR QUALITY
4 MONITORING AND
PRESERVATION

The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

PPs Submission: Being Complied Date: Fugitive emissions monitoring is being carried out in the plant premises Near Plant Construction 28/05/2025 Site and Near Weigh Bridge on quarterly basis by NABL accredited labs approved by CPCB and monitoring report is attached below: -AIR QUALITY Sampling facility at process stacks shall be provided as per CPCB 5 MONITORING AND guidelines for manual monitoring of emissions. **PRESERVATION** Date: **PPs Submission:** Agreed to Comply 28/05/2025 Project construction/erection activities are under progress. Sampling facility will be provided at all the process stacks after commissioning of the proposed project. Appropriate Air Pollution Control (APC) system shall be provided AIR QUALITY for all the dust generating points including fugitive dust from all **MONITORING AND** 6 vulnerable sources, so as to comply prescribed stack emission and **PRESERVATION** fugitive emission standards. **PPs Submission:** Agreed to Comply Date: Project construction/erection activities are under progress. JSW have planned to install appropriate 28/05/2025 Air Pollution Control (APC) systems i.e.: RABH, Bag Filters / ESP / Water Sprinklers / Mist System / Covered Conveyor Belts / Plantation etc. to combat the air pollution, so as to comply prescribed stack emission and fugitive emission standards. AIR QUALITY The project proponent shall provide leakage detection and 7 **MONITORING AND** mechanized bag cleaning facilities for better maintenance of bags. PRESERVATION Date: **PPs Submission:** Agreed to Comply 28/05/2025 Project construction/erection activities are under progress. Leakage detection and mechanized bag cleaning facilities will be provided for better maintenance of bags... AIR QUALITY Sufficient number of mobile or stationery vacuum cleaners shall be 8 MONITORING AND provided to clean plant roads, shop floors, roofs, regularly. **PRESERVATION** Date: **PPs Submission:** Agreed to Comply 28/05/2025 Project construction /erection activities are under progress. Vacuum cleaners will be deployed to clean the plant roads, floors/roofs regularly after commissioning of the plant operations. Ensure covered transportation and conveying of raw material to **AIR QUALITY** prevent spillage and dust generation. The project proponent use leak 9 MONITORING AND proof trucks/dumpers carrying coal and other raw materials and cover **PRESERVATION** them with tarpaulin. **PPs Submission:** Agreed to Comply Date: Project construction /erection activities are under progress. Internal transportation of material shall 28/05/2025 be done through covered conveyors. Leak proof trucks/dumpers for carrying coal and other raw materials covered with tarpaulin will be used within plant premises. AIR OUALITY The project proponent shall provide primary and secondary fume 10 MONITORING AND extraction system at all heat treatment furnaces. **PRESERVATION** Date: PPs Submission: Complied 28/05/2025 Not applicable to cement plants. AIR QUALITY Wind shelter fence and chemical spraying shall be provided on the 11 MONITORING AND raw material stock piles.

	PRESERVATION		
Project		nder progress. Wind shelter fence and chemical spraying iles once the project is commissioned.	Date: 28/05/2025
12	AIR QUALITY MONITORING AND PRESERVATION	Design the ventilation system for adequate air change prevailing norms for all Tunnels, Motor Houses, Oil Co	
	Submission: Complied plicable to cement plants.		Date: 28/05/2025
13	AIR QUALITY MONITORING AND PRESERVATION	Pollution control system in the plant shall be provided CREP Guidelines of CPCB.	d as per the
Project	Submission: Agreed to Comply to construction/erection activities are undesign, implementation and operation	nder progress. CREP guidelines will be implemented phases of the project.	Date: 28/05/2025
14	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall adopt the Clean Air pract mechanical collectors, wet scrubbers, fabric filters (bag electrostatic precipitators, combustion systems (therma condensers, absorbers, absorbers and biological degrad Controlling emissions related to transportation shall incontrols on vehicles as well as use of cleaner fuels. Suf numbers of additional truck mounted Fog/Mist water cobe procured and operated regularly inside the project pralso in the surrounding villages to arrest suspended dus atmosphere.	g houses), al oxidizers), lation. clude emissio ficient annons shall remises and
Project cement cannor	t <mark>plant shall be imp</mark> lemented during th as shall be deployed during the operati to transportation, Vehicles having va	nder progress. Clean Air practices as applicable to e construction phase. Adequate nos. of fog/mist water on phase to suppress the dust. To control emissions lid PUC certificates will only be allowed inside the	Date: 28/05/2025
	_	d vehicles will be preferred for commuting inside the	
premis premis	_	Bag filters shall be cleaned regularly and efficiency of system shall be monitored at regular intervals.	of bag filter
premis premis 15 PPs a Project bag cle	AIR QUALITY MONITORING AND PRESERVATION Submission: Agreed to Comply t construction/erection activities are un eaning system programmed for automates bag filters will be monitored manual	Bag filters shall be cleaned regularly and efficiency of	Date: 28/05/2025
premis premis 15 PPs Project bag cle proces project	AIR QUALITY MONITORING AND PRESERVATION Submission: Agreed to Comply t construction/erection activities are un eaning system programmed for automates bag filters will be monitored manual	Bag filters shall be cleaned regularly and efficiency of system shall be monitored at regular intervals. Inder progress. It has been planned to implement in-built atic bag cleaning at regular intervals. Efficiency of	Date: 28/05/2025
PPs : Project Project Project Project	AIR QUALITY MONITORING AND PRESERVATION Submission: Agreed to Comply to construction/erection activities are uneaning system programmed for automas bag filters will be monitored manual and the construction of the construction	Bag filters shall be cleaned regularly and efficiency of system shall be monitored at regular intervals. Inder progress. It has been planned to implement in-built ratic bag cleaning at regular intervals. Efficiency of ly at least once in year after commissioning of the Water Sprinklers/Water mist system shall be installed material yards, operational units and other strategic loc control fugitive emissions from the plant.	Date: 28/05/2025

MONITORING AND PRESERVATION

less than 30 mg/Nm3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. We have planned to install efficient air control systems such as: Bag filters/ESPs to control emission below 30 mg/Nm3 at all process stacks and the same will be provided during the implementation phase.

Date: 28/05/2025

18

AIR QUALITY MONITORING AND PRESERVATION Following additional arrangements to control fugitive dust shall be provided: a. Fog/Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. a. JSW will provide the Fog/Mist Sprinklers at all on bulk raw material storage area and similar waste storage areas. b. Proper covered vehicle will be used while transport of materials. c. Wheel washing mechanism will be provided in entry and exit gates.

Date: 28/05/2025

19

AIR QUALITY
MONITORING AND
PRESERVATION

Provide Low NOx burners as primary measures and SCR/NSCR technologies as secondary measure to control NOx emissions.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. JSW has planned to install Low NOx burners and Low NOx calciner during the implementation phase. SCR/ SNCR technologies will be provided, if required to control the NOx emission after commissioning of the project.

Date: 28/05/2025

20

AIR QUALITY
MONITORING AND
PRESERVATION

The emission norms applicable for the cement plant shall be adhered to.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. The emission norms applicable to cement plants shall be adhered to during the implementation as well as operation phase of the project.

Date: 28/05/2025

21

AIR QUALITY MONITORING AND PRESERVATION

Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. Dioxin and Furan will be monitored once in six months during the operation of plant.

Date: 28/05/2025

22

AIR QUALITY MONITORING AND PRESERVATION

DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm3 by using best available technology.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. Kiln and calciner system shall be designed to act as a dry de-SOx system. NOx level from kiln stack shall be maintained below 600 mg/Nm3.

Date: 28/05/2025

23

AIR QUALITY MONITORING AND PRESERVATION

Petcoke dosing shall be controlled automatically to control SO2 emission from chimney within the prescribed limits.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. Petcoke dosing will be controlled automatically to control SO2 emission from the stack.

Date: 28/05/2025

24

AIR QUALITY MONITORING AND PRESERVATION

PP shall identify the source of fluoride emissions and action plan to mitigate the same shall be implemented.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. There is no known source of fluoride. However, the source of fluoride emission (possibly water), if any, shall be identified and action plan to mitigate the same, if required, shall be implemented during operation of the plant.

Date: 28/05/2025

25

AIR QUALITY MONITORING AND PRESERVATION

Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. The CREP guidelines to control the pollution within Cement Plant premises shall be strictly implemented.

Date: 28/05/2025

26

WATER QUALITY MONITORING AND PRESERVATION The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. CEMS (Continuous Effluent Monitoring System) will be installed at ETP/neutralization pit of WHRS to monitor the effluent quality and same will be connected to SPCB and CPCB online servers. The CEMS will be calibrated from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

Date: 28/05/2025

27

WATER QUALITY MONITORING AND PRESERVATION The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/ sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.

PPs Submission: Being Complied

Project construction/erection activities are under progress. Water quality Analysis is being carried out through NABL and CPCB accredited laboratory Vibrant Labs on half yearly basis i.e., twice in a year (pre and post-monsoon) in plant and adjacent areas. The report of the same is detailed below:

Date: 28/05/2025

28

WATER QUALITY MONITORING AND PRESERVATION Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.

PPs Submission: Agreed to Comply

Project construction/erection activities are under progress. Provision for garland drains and collection pits at each stock pile has been kept in the design of the plant and the same shall be provided during the implementation phase.

Date: 28/05/2025

29

WATER QUALITY MONITORING AND PRESERVATION

Water meters shall be provided at the inlet to all unit processes in the plants.

Date: **PPs Submission:** Agreed to Comply 28/05/2025 Project construction/erection activities are under progress. Water meters will be provided at the inlet of all processes in the plant premises during the implementation phase. WATER QUALITY The project proponent shall make efforts to minimise water MONITORING AND 30 consumption in the plant complex by segregation of used water, **PRESERVATION** practicing cascade use and by recycling treated water. **PPs Submission:** Agreed to Comply Date: Project construction/erection activities are under progress. Appropriate measures will be taken to 28/05/2025 minimise water consumption in the plant complex. Waste water will be treated and reused for dust suppression / plantation purpose within cement plant premises. The proposed project shall be designed as "Zero Liquid Discharge" WATER QUALITY Plant. ETP shall be installed and there shall be no discharge of 31 MONITORING AND effluent from the plant. Domestic effluent shall be treated in Sewage **PRESERVATION** Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body. **PPs Submission:** Agreed to Comply Project construction/erection activities are under progress. The project will be designed on "Zero Date: Liquid Discharge" concept. ETP/Neutralization pit will be installed for treatment of effluents 28/05/2025 generated from WHR process and there will be no discharge of effluent from the plant premises. Domestic effluent will also be treated in Sewage Treatment Plant and suitable measures will be adopted for sewage water handling to ensure no contamination of any kind of water body. All stockyards shall have impervious flooring and shall be equipped **WATER QUALITY** with water spray system for dust suppression. Stock yards shall also 32 **MONITORING AND** have garland drains and catch pits to trap the run off material and **PRESERVATION** shall be implemented as per the action plan submitted in EIA/EMP report. **PPs Submission:** Agreed to Comply Date: Project construction/erections activities are under progress. At the design stage, provision for 28/05/2025 impervious flooring, garland drains, catch pits and water spray system for dust suppression has been kept at all stockyards and these measures will be implemented during the implementation phase. WATER QUALITY Rain water harvesting shall be implemented to recharge/ harvest **MONITORING AND** 33 water as per the action plan submitted in the EIA/EMP report. **PRESERVATION** Date: **PPs Submission:** Agreed to Comply 28/05/2025 Project construction/erection activities are under progress. Rain water harvesting systems such as rooftop RWH, WH pond etc. shall be provided during the implementation phase. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments 34 Noise Monitoring & Prevention thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. PPs Submission: Complied Date: Project construction/erection activities are under progress. Noise levels are being Monitored through 28/05/2025

The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

NABL and CPCB accredited laboratory Vibrant Techno Labs Pvt. Ltd. on monthly basis (Day and

Night) in plant and adjacent areas. The report of the same is detailed below: -

Ambie	Submission: Complied and noise level monitoring is being done or the prescribed under EPA rules.	e regularly and results are found well within the	Date: 28/05/2025
36	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of build light system for all common areas, street lights, parking project area and maintain the same regularly.	
Project buildin	ngs for solar light system for all commo	der progress. Solar power generation on roof tops of on areas, street lights, parking around project area will alar basis after commissioning of the proposed project.	Date: 28/05/2025
37	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential at	reas.
Project	Submission: Agreed to Comply t construction /erection activities are unsidential areas as soon as the offices an	nder progress. LED lights will be provided in offices d residential areas are constructed.	Date: 28/05/2025
38	ENERGY PRESERVATION MEASURES	The project proponent make efforts to achieve power less than 65 units/tonne for Portland Pozzolona Ceme units/tonne for Ordinary Portland Cement (OPC) production of 670 Kcal/Kg of clinks	nt (PPC) and 8 luction and
Project	Submission: Agreed to Comply t construction /erection activities are unbed energy levels post commissioning	nder progress. Efforts will be made to achieve the of the project.	Date: 28/05/2025
39	ENERGY PRESERVATION MEASURES	Maximize utilization of fly ash, slag and sweetener as per BIS standards.	in cement bler
Project slag (if		nder progress. Products are designed to utilize fly ash, the maximum extent while meeting the quality as well	Date: 28/05/2025
40	ENERGY PRESERVATION MEASURES	Maximize utilization of alternate fuels and Co-proce achieve best practice norms.	essing to
Project for util		nder progress. The project/process has been designed ich is one of the best practices in Indian cement during the implementation phase.	Date: 28/05/2025
41	ENERGY PRESERVATION MEASURES	Waste heat recovery system shall be provided for ki	ln and cooler.
Project	Submission: Agreed to Comply t construction /erection activities are unne) shall be provided during the projection	nder progress. WHRS of capacity 54 MW (18 MW in et implementation phase.	Date: 28/05/2025
42	WASTE MANAGEMENT	Oil Collection pits shall be provided in oil cellars to reuse/recycle spilled oil.	collect and
PPs :	Submission: Agreed to Comply		Date: 28/05/2025

Project and cor		under progress. Systems for composting of kitchen waste ted after construction of canteen/ kitchen in the plant/	Date: 28/05/2025
44	WASTE MANAGEMENT	100% utilization of fly ash shall be ensured. All the f provided to cement and brick manufacturers for further and Memorandum of Understanding in this regard shall to the Ministry's Regional Office.	rutilization
There is	Submission: Complied s no any source of fly ash generation licable to us.	in the proposed project and therefore this condition is	Date: 28/05/2025
45	WASTE MANAGEMENT	The Plastic Waste Management Rules 2016, inter-ali banning of identified Single Use Plastic (SUP) items w 01/07/2022. In this regard, CPCB has issued a directio State Pollution Control Boards (SPCBs)/Pollution Concommittees (PCCs) on 30/06/2022 to ensure the comp Notification published by Ministry on 12/08/2021. The guidelines issued by the CPCB in this regard is availabhttps://cpcb.nic.in/technical-guidelines-3/. All the project are hereby requested to sensitize and create awareness working within the Project area as well as its surround ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, ale photographs, on the measures taken shall also be inclumentally compliance report being submitted by the proproponents.	with effect from to all the trol diance of te technical de at ect proponent among people ing area on th cation ong with ded in the six
As part	Submission: Complied of our organization(s) policy, SUP in ple working in the project area and a	s banned at all our plant locations is being conducted for lso in the surrounding areas.	Date: 28/05/2025
46	WASTE MANAGEMENT	A proper action plan must be implemented to dispose electronic waste generated in the industry.	e of the
		under progress. So far, no E-waste has been generated. vaste Management and Handling Rules and disposal plan	Date: 28/05/2025
Disposa			
Disposa	WASTE MANAGEMENT	PP shall recycle/reuse solid waste generated in the pl possible.	ant as far as
PPs S Project	Submission: Being Complied construction /erection activities are recycled to the maximum possible ex		Date: 28/05/2025
Disposa incorpo 47 PPs S Project	Submission: Being Complied construction /erection activities are recycled to the maximum possible ex	possible. under progress. Solid waste generated are being	Date: 28/05/2025

of the same has already been submitted to MOEFCC with EC Compliance Report. Plan will be implemented during project implementation and operation phase. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/balancing, carbon sequestration activities and carbon capture, use and storage and offsetting 49 **GREENBELT** strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/assessments should be measurable and monitor able with defined time frames. **PPs Submission:** Agreed to Comply Project construction/erection activities are under progress. We are aligned to the net zero target of the Government of India (GoI) by 2070. The cement industry contributes approximately 7-8 percent of global CO2 emissions, positioning it as one of the most challenging sectors to decarbonize. While various strategies such as improving energy efficiency, using alternative fuels, and substituting clinker-help reduce emissions, Carbon Capture and Utilization (CCU) is increasingly recognized as a vital approach for achieving deep Decarbonization. JSW Cement, in partnership with premier institutions including IIT Kanpur, IIT Tirupati, IISc, Bangalore and CSIR-IIP, Dehradun are currently developing and testing two CCU test beds, recently approved by the Department of Science and Technology (DST), Govt. of India. These include Integrated Carbon Capture and Date: Mineralization (ICCM) and Vacuum Swing Adsorption (VSA) technologies, which leverage carbon-28/05/2025 negative mineralization to permanently lock CO2 into the construction value chain. These pilot projects underway at JSW Cement(s), Nandyal and Shiva Units, focus on capturing CO2 directly from kilns and reintegrating it into building materials. This approach not only enables a net reduction in carbon emissions but also reduces the need for mining, thereby conserving natural resources. Additionally, JSW Cement is committed to lowering its carbon footprint by substituting clinker with materials such as fly ash, slag, or activated clays, and by utilizing waste heat recovery systems to enhance energy efficiency. The company continues to explore and invest in CCUS technologies while recognizing the importance of developing a comprehensive national roadmap for CCUS in hard-to-abate sectors like cement. These technologies will be implemented across other JSW Cement units, if found suitable with progress reported to the Integrated Regional Office (IRO) of the Ministry of Environment, Forest and Climate Change (MoEFCC). Greening and Paving shall be implemented in the plant area to 50 **GREENBELT** arrest soil erosion and dust pollution from exposed soil surface. PPs Submission: Being Complied Date: Project construction /erections activities are under progress. Paving of areas such as roads and floors 28/05/2025 will be done along with the construction activities. Greening of vacant spaces with lawns/ grasses/ herbs/ shrubs etc. is being undertaken actively in th dedicated area and will also be carried out post completion of all civil construction activities. Emergency preparedness plan based on the Hazard identification 51 Human Health Environment and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. Date: **PPs Submission:** Agreed to Comply 28/05/2025 Project construction/erection activities are under progress. Emergency Preparedness Plan and Disaster Management Plan will be implemented during the project implementation phase. The project proponent shall carry out heat stress analysis for the 52 **Human Health Environment** workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms. Date: **PPs Submission:** Agreed to Comply

28/05/2025

Project construction/erection activities are under progress. Heat stress analysis for the workmen who work in high temperature work zone will be carried out after commissioning of the project. Suitable

PPEs will be provided as per the norms. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, 53 Human Health Environment medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. Date: PPs Submission: Complied 28/05/2025 JSW has provided the temporary housing to the construction labours with all necessary infrastructures and basic facilities within the project site. Occupational health surveillance of the workers shall be done on a 54 **Human Health Environment** regular basis and records maintained. PPs Submission: Being Complied Date: Project construction /erection activities are under progress. Occupational health surveillance of the 28/05/2025 workers is being done (pre-medical check-up prior to their employment) and records of the same are being maintained. Regular Health Surveillance with maintenance of records will be done after commissioning of the project.. The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) Corporate Environmental 55 activity, company shall adopt nearby villages based on the socio-Responsibility economic survey and undertake community developmental activities in consultation with the Village Panchayat and the District Administration as committed. PPs Submission: Being Complied We have identified 5 villages in the core zone namely Jindas, Bhadana, Manjhwas, Harima and Deh Date: for adoption and developing them into model villages. A socio economic survey has also been 28/05/2025 carried out by our CSR team. JSW are in the process of consultation with the concerned village panchayats for finalization of community development activities to be undertaken in the adopted villages. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any Corporate Environmental infringements/deviation/violation of the environmental/forest/wildlife 56 norms/ conditions. The company shall have defined system of Responsibility reporting infringements /deviation/violation of the environmental/ forest/wildlife norms/conditions and/or shareholder's/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report. **PPs Submission:** Complied Date: An environmental policy duly approved by the Board of Directors of JSWCL is in place and is 28/05/2025 incorporated in the EIA report. Copy of the Board Resolution for the Corporate Environment Policy has already been submitted to MoEFCC along with earlier EC compliance report. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the Corporate Environmental 57 Responsibility control of Senior Executive, who will directly to the head of the organization. Date: PPs Submission: Complied

28/05/2025 A separate EMC with a Qualified Environment Person reporting directly to Plant Head has been setup both at unit as well as at corporate level. Performance test shall be conducted on all pollution control systems Corporate Environmental 58 every year and report shall be submitted to Integrated Regional Office Responsibility of the MoEF&CC. Date: **PPs Submission:** Agreed to Comply 28/05/2025 Performance test will be conducted on all pollution control systems every year post commissioning of the project as our project is under construction and erection stage. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it 59 MISCELLANEOUS at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently. PPs Submission: Complied Date: Grant of EC to the project was duly advertised within 7 days in two local newspapers i.e.: Times of 28/05/2025 India dated 30/09/2023 on page No.: 5 and Dainik Bhaskar dated 01.10.2023 on page No.: 23. In addition, the EC letter has also been permanently displayed on the Company(s) website. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchavats and 60 MISCELLANEOUS Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt. Date: PPs Submission: Complied 28/05/2025 Copies of EC were submitted to the respective agencies/local bodies and other relevant offices. Receipts of the same has already been submitted with last EC compliance report. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of MISCELLANEOUS 61 monitored data on their website and update the same on half-yearly basis. Date: **PPs Submission:** Complied 28/05/2025 Compliance status of the stipulated EC conditions has been uploaded on Company(s) website. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) 62 **MISCELLANEOUS** or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. PPs Submission: Being Complied Date: AAQ Monitoring conducted for the prescribed parameters within and outside the plant area, please 28/05/2025 refer the specific condition no.: v and stack emission monitoring will be undertaken and monitored data will be duly displayed on the Company website and at the factory main gate for disclosure to the public after successful commissioning of the project. Action plan for developing connecting and internal road in terms of 63 **MISCELLANEOUS** MSA as per IRC guidelines shall be implemented. Date: **PPs Submission:** Agreed to Comply

JSW w	ill develop connecting and interna	l road as per IRC guidelines.	28/05/2025
64	MISCELLANEOUS	The project proponent shall submit six-monthly report status of the compliance of the stipulated environments on the website of the ministry of Environment, Forest at Change at environment clearance portal.	al conditions
JSW is Parives	h portal and the same is also being	nthly compliance report on the website of the MoEFCC - g sent by email to concern authorities. Recently, submitted -2024 to Spet-24 is vide our email dated 28/11/2024.	Date: 28/05/2025
65	MISCELLANEOUS	The project proponent shall submit the environmenta each financial year in Form-V to the concerned State P Control Board as prescribed under the Environment (P Rules, 1986, as amended subsequently and put on the v company.	ollution rotection)
Project		e under progress. Environmental statement for each ed after commissioning of the plant operation.	Date: 28/05/2025
66	MISCELLANEOUS	The project proponent shall inform the Regional Offithe Ministry, the date of financial closure and final approject by the concerned authorities, commencing the levelopment work and start of production operation by	roval of the
- Date comme		Date of final approval of the project: 10/05/2024 Date of rk: 10/05/2024 Date of start of production operation will duction operations.	Date: 28/05/2025
	7	The project proponent shall abide by all the commitm	
67	MISCELLANEOUS	recommendations made in the EIA/EMP report, comm during Public Hearing and also that during their presen Expert Appraisal Committee.	
PPs S We sha	Submission: Agreed to Comply	during Public Hearing and also that during their presen Expert Appraisal Committee. Indeed, the commendation of the EIA/EMP report,	Date:
We sha	Submission: Agreed to Comply all abide by all the commitments as	during Public Hearing and also that during their presen Expert Appraisal Committee. Indeed, the commendation of the EIA/EMP report,	Date: 28/05/2025 Wildlife -I species) rest hed along with
PPs \$ We sha commi 68 PPs \$ WLCP F()TK/ Jaipur 1	Submission: Agreed to Comply all abide by all the commitments attment made during PH and during MISCELLANEOUS Submission: Agreed to Comply for Schedule-I species has been proceed to Comply described by the complete of the	during Public Hearing and also that during their present Expert Appraisal Committee. Independent of the EIA/EMP report, presentation to the EAC. The recommendations of the approved Site-Specific Management Plan (in case of involvement of Schedule shall be implemented in consultation with the State For Department. The implementation report shall be furnish the six-monthly compliance report to the concerned Refor the MoEF&CC. Trepared and submitted to DFO, Nagaur vide letter No.: Earch, 2023, after that WLCP has been forwarded to PCCF No.: F16(29) Wildlife/CCF/2022-23/1266 dtd. 6th April,	Date: 28/05/2025 Wildlife -I species) rest hed along with

		next three years, in the company web site for the inforpublic/public domain.	imation to
PPs Submission: Agreed to Comply Project construction/erection activities are under progress. The details of the said expenditures will be uploaded on our company website post commissioning of project.			Date: 28/05/2025
70	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	
PPs Submission: Agreed to Comply No further expansion or modifications in the plant will be carried out without prior approval/EC.			
71	MISCELLANEOUS	Concealing factual data or submission of false/ fabricesult in revocation of this environmental clearance arounder the provisions of Environment (Protection) Act	nd attract actio
PPs Submission: Agreed to Comply Noted and agreed.			Date: 28/05/2025
72	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, implementation of any of the above conditions is not	
	Submission: Agreed to Comply and agreed.		Date: 28/05/2025
73	MISCELLANEOUS	The Ministry reserves the right to stipulate additional found necessary. The Company in a time bound many implement these conditions.	
PPs S	MISCELLANEOUS Submission: Agreed to Comply and agreed.	found necessary. The Company in a time bound mann	ner shall Date:
PPs S Noted ε	Submission: Agreed to Comply	found necessary. The Company in a time bound mann	Date: 28/05/2025
PPs S Noted a 74 PPs S We are	Submission: Agreed to Comply and agreed. MISCELLANEOUS Submission: Agreed to Comply	The Regional Office of this Ministry shall monitor of the stipulated conditions. The project authorities shou cooperation to the officer(s) of the Regional Office by requisite data /information/monitoring reports.	Date: 28/05/2025 compliance of ald extend fully furnishing the
PPs S Noted a 74 PPs S We are informa	Submission: Agreed to Comply and agreed. MISCELLANEOUS Submission: Agreed to Comply extending our full cooperation to the	The Regional Office of this Ministry shall monitor of the stipulated conditions. The project authorities shou cooperation to the officer(s) of the Regional Office by requisite data /information/monitoring reports.	Date: 28/05/2025 compliance of old extend full y furnishing the Date: 28/05/2025
PPs S Noted a 74 PPs S We are informa 75	Submission: Agreed to Comply and agreed. MISCELLANEOUS Submission: Agreed to Comply extending our full cooperation to the ation/ data during their site visit held	The Regional Office of this Ministry shall monitor of the stipulated conditions. The project authorities shou cooperation to the officer(s) of the Regional Office by requisite data /information/monitoring reports. The JD, IRO-MoEFCC, Jaipur by furnishing the requisite don 24th March, 2025. Any appeal against this EC shall lie with the Nation Tribunal, if preferred, within a period of 30 days as present the second conditions.	Date: 28/05/2025 compliance of old extend full y furnishing the 28/05/2025 all Green rescribed under Date: Date:
PPs S We are informa 75	Submission: Agreed to Comply and agreed. MISCELLANEOUS Submission: Agreed to Comply extending our full cooperation to the ation/ data during their site visit held MISCELLANEOUS Submission: Agreed to Comply	The Regional Office of this Ministry shall monitor of the stipulated conditions. The project authorities shou cooperation to the officer(s) of the Regional Office by requisite data /information/monitoring reports. The JD, IRO-MoEFCC, Jaipur by furnishing the requisite don 24th March, 2025. Any appeal against this EC shall lie with the Nation Tribunal, if preferred, within a period of 30 days as present the second conditions.	Date: 28/05/2025 compliance of old extend full y furnishing the 28/05/2025 all Green rescribed under

Additional Remarks:	No any.
Note: This acknowledgement is as per the details submitt	ted by project proponent. In no way is this document to be
considered as conclusion on any action on the compliance	e of the project. This is strictly for the project proponent's e purpose.
reference	purpose.