

Regd. Office : JSW Centre,  
Bandra Kurla Complex,  
Bandra (East), Mumbai - 400 051

CIN. : U26957MH2006PLC160839  
Phone : +91 22 4286 1000  
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Website : www.jsw.in

Ref.: JSWCL/CP/Nagaur/EC Comp./2024-01

Date: 24/05/2024

To

**The Deputy Director(s),**

Ministry of Environment, Forest & Climate Change, Integrated Regional Office,  
A-209 & 218, Aranya Bhawan, Jhalana Institutional Area,  
Jaipur (Rajasthan) - 304002

**Sub.: Six Monthly Compliance Report of Environmental Clearance for Proposed Cement Plant With Clinker Production 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), 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 for the period: October-2023 to March-2024 by M/s. JSW Cement Limited located at Villages - Bhadana & Jindas, Tehsil - Nagaur, District - Nagaur, Rajasthan.**

**Ref.: Environment Clearance vide F. No.: IA-J-11011/355/2022-IA-II(IND-I) dated 27/09/2023 granted by MoEF&CC.**

Dear Sir,

With reference to above, please find attached herewith the Six Monthly EC Compliance Report for the period: **October-2023 to March-2024**.

We also wish to inform your good office that the project implementation has not started till 31<sup>st</sup> Mar'24.

As per the MoEF&CC notification No.: S.O. 5845(E) dated 26.11.2018, we have uploaded the compliance report on Parivesh portal and the soft copy of the six monthly compliance report is also being sent through email to the following authorities: -

[iro.jaipur-mefcc@gov.in](mailto:iro.jaipur-mefcc@gov.in); [moef@gov.in](mailto:moef@gov.in); [monitoring-ec@nic.in](mailto:monitoring-ec@nic.in); [member-secretary@rpcb.nic.in](mailto:member-secretary@rpcb.nic.in);  
[cpcb.bhopal@gov.in](mailto:cpcb.bhopal@gov.in) & [ccb.cpcb@nic.in](mailto:ccb.cpcb@nic.in)

We hope the compliance is in order.

Thanking you,

Yours Faithfully,

For, M/s. JSW Cement Limited,



(Arvind Kumar Sharma)

AVP - Environment & Authorized Signatory

Encl.: As above

Cc to: -

1. **The Director (M)**, Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, Aligang, **New Delhi-110003**.
2. **The Member Secretary**, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, **Jaipur (Rajasthan)-302004**.
3. **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD Cum Office Complex, East Arjun Nagar, **New Delhi-110032**.
4. **The Regional Director**, Central Pollution Control Board, Paryavaran Parivesh, E-5, Arera Colony, **Bhopal (Madhya Pradesh)-462016**.

FORM FOR UPLOADING SIX MONTHLY COMPLIANCE REPORT			
<b>Proposal Details</b>			
<b>Proposal No.</b>	IA/RJ/IND1/43 2291/2023 dated 20 <sup>th</sup> July, 2023	<b>Project Name</b>	Proposed Cement Plant with Clinker Production 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), WHRB based Power Plant - 54 MW, DG Sets of 6000 KVA, Oxygen Plant of Capacity - 160 m <sup>3</sup> /hr, AFR Pre-Processing/Co-processing Facility and Railway Siding with Wagon Tippler by M/s. JSW Cement Limited, located at Villages - Bhadana & Jindas, Teh. - Nagaur, Dist. - Nagaur, Rajasthan - Grant of EC Regarding.
<b>Category</b>	A-3(b) Cement Plants	<b>MoEFCC File No.</b>	IA-J-11011/355/2022-IA-II(IND-I)
<b>Name of the Entity /Corporate Office*</b>	M/s. JSW Cement Limited. AJSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai, Maharashtra-400051		
<b>Entity's PAN*</b>	AABCJ6731M		
<b>Entity Name as per PAN</b>	JSW CEMENT LIMITED		
<b>Covering Letter:</b> Attached as above.			
<b>Reporting Year:</b>	<b>2023-24</b>	<b>Reporting Period:</b> October-2023 to March-2024	
<b>Remarks (if any)</b>	--		
<b>Details of Production and Project Area</b>			
<b>Date of Commencement of Project:</b>	--		
<b>Land Category</b>	<b>Project Area as per EC Granted (Ha.)</b>	<b>Actual Project Area in Possession (Ha.)</b>	
Private Land	192.4838	152.0067	
Revenue Land/Govt. Land	2.0722	0.0000	
Forest Land	0.0000	0.0000	
Others (Grazing Land)	0.0000	0.0000	
<b>Total Area (Ha.)</b>	<b>194.5560</b>	<b>152.0067</b>	
<b>NOTE:</b> - Applied for allotment of Govt. Land			
<b>PRODUCTION CAPACITY</b>			
<b>Name of the Product*</b>	<b>Units*</b>	<b>As per EC granted*</b>	<b>Production during last financial year*</b>
Clinker*	Million TPA	12.0 (Kiln - 3 x 12000 TPD)	Project yet to be Implemented.
Calcined Clay	Million TPA	1.5 (Clay Calciner System 2x2300 TPD)	Project yet to be Implemented.
Cement (OPC/PPC/PSC/ Composite Cement/LC3/ PLC)	Million TPA	5.0 (Cement Mill - 2 x 350 TPH)	Project yet to be Implemented.
WHRB Based Power Plant	MW	54 (3 PH Boilers & 3 AQC Boilers comprising of HP Steam capacity of 3x72 TPH and LP 3x30.84 TPH) and Turbine - 3x18 MW.	Project yet to be Implemented.
DG Sets	KVA	6000 (3 x 2000 KVA)	Project yet to be Implemented.
Oxygen Plant	m <sup>3</sup> /hr	160	Project yet to be Implemented.
AFR Pre - processing & Co - processing Facility	--	Part of Project (Approx. 3750 TPD)	Project yet to be Implemented.
Railway Siding with Wagon Tippler	--	Part of the Project (Approx. 62500 TPD)	Project yet to be Implemented.
*Surplus Clinker will be dispatched to other grinding unit and market sale			

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**Proposed Cement Plant by M/s. JSW Cement Limited,  
located at Villages - Bhadana & Jindas, Tehsil - Nagaur, District - Nagaur, Rajasthan**

**EC Compliance Report Period: October-2023 to March-2024**

**Proposed Cement Plant With Clinker Production 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), 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 by M/s. JSW Cement Limited, located at Village - Bhadana & Jindas, Tehsil - Nagaur , District - Nagaur, Rajasthan - Grant of EC Regarding.**


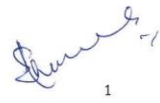





**Environment Clearance vide F. No.: IA-J-11011/355/2022-IA-II(IND-I) dated 27/09/2023.**

**Proposed Cement Plant is yet to be implemented.**

<b>A. SPECIFIC CONDITION: -</b>				
<b>S. No.</b>	<b>Condition Type</b>	<b>Condition Details</b>	<b>Self-Declaration</b>	<b>Remarks / Reason as on 31<sup>st</sup> Mar-2024</b>
i.	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.	Agree to comply	Noted.
ii.	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.	Agree to comply	Project yet to be implemented. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures will be implemented with the implementation of the project.
iii.	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, MoEF&CC in this regard.	Agree to comply	Project yet to be implemented. We are aligned to the net zero target of the Government of India (GoI) by 2070. The Carbon Capture, Utilization and Storage (CCUS) technologies, as on date, are in a very nascent stage world-wide and we are engaged in a dialogue with various research organizations and vendors to explore the possibility of the same. We assure that as soon as a commercially viable technology is available, we will implement the same and duly report to the IRO, MoEF&CC.
iv.	Greenbelt	The PP shall complete the acquisition of the proposed project land and conversion for industrial purpose prior to commencement of proposed project.	Being complied	JSW has acquired 152.0067 ha. land till Mar-24 and construction activities shall be done on the acquired land

				after conversion for industrial purpose.
v.	Miscellaneous	Eight Families (1 family from Bhadana village & 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 minimise 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.	Agree to comply	Construction activities are yet to be started. We have planned to develop thick greenbelt towards the hamlet/ villages closer to the plant boundary. AAQ monitoring will be done at Jindas and Bhadana village as part of our EMP.
vi.	Miscellaneous	PP shall implement the R&R plan for the habitations involved within the project area and also for purchase of private land.	Being complied	R&R plan has been implemented for the habitations involved within the project area and also for purchase of private land as per applicability.
vii.	Water Quality Monitoring And Preservation	The water requirement of 4180 m <sup>3</sup> /day be met from saline ground water (3960 m <sup>3</sup> /day) after prior approval from competent authorities and through treated waste water (220 m <sup>3</sup> /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.	Agree to comply	We will neither extract any groundwater in the premises except for drinking nor will we source any water from the Indira Gandhi canal. As committed, we shall source treated STP water for industrial purposes for which signing of MoU is under process with Nagar Parishad, Nagaur. JSW has obtained NOC from CGWA for ground water withdrawal @ 380 KLD for drinking and domestic purposes only.
viii.	Green Belt	Three tier Green Belt shall be developed in at least 33% 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	Partially complied	Project yet to be implemented. Signing off MoU with CAZRI for availing consultancy services for "Tree Plantation" is under process, a request letter has been submitted to the Director, CAZRI, Jodhpur on 25.07.2023 for the same and copy of the same is enclosed below.

		<p>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 &amp; broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution &amp; 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 MoEF&amp;CC.</p>		<p>So far 51000 nos. of saplings have been planted in and around the project site. Further plantation will be done after getting recommendations of CAZRI.</p>
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	<div>  <p><b>JSW Cement Limited</b>  Regd. Office : JSW Centre,  Bandra Kurla Complex,  Bandra (East), Mumbai - 400 051  CIN : U26957MH2006PLC160839  Phone : +91 22 4286 1000  Fax : +91 22 2650 2001  Website : www.jswn</p> </div> <p>Ref.: JSWCL/Nagaur/Plant/EC/2023      Date: 05/09/2023</p> <p>To</p> <p><b>The Director,</b>  Central Arid Zone Research Institute,  CAZRI Road,  Jodhpur - 342 003 (Rajasthan)</p> <p><b>Sub.:</b> Regarding tree plantation in consultation with your good office for our proposed Greenfield Cement Plant at Villages - Bhadana &amp; Jindas, Tehsil - Nagaur, District - Nagaur (Raj.).</p> <p><b>Ref.:</b> Minutes of Meeting of 41<sup>st</sup> meeting of the Expert Appraisal Committee (Industry-1 Sector) of Ministry of Environment, Forest &amp; Climate Change (MoEF&amp;CC), New Delhi dated 14/08/2023.</p> <p>Dear Sir,</p> <p>We would like to inform you that, <b>M/s. JSW Cement Limited</b> is going to set up a greenfield Cement Plant with Clinker Production Capacity of 12.0 Million TPA, Calcined Clay Production Capacity - 1.5 Million TPA, Cement Production Capacity - 5.0 Million TPA (OPC/PPC/ PSC/Composite Cement/LC3/PLC) and WHR based Power Plant - 54 MW, <b>at Villages - Bhadana &amp; Jindas, Tehsil - Nagaur &amp; District - Nagaur (Rajasthan).</b></p> <p>During our EC appraisal meeting, the Expert Appraisal Committee (EAC) of MoEF&amp;CC recommended the following condition:</p> <p>"Three tier Green Belt shall be developed in at least 33% 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 &amp; broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution &amp; 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 MoEF &amp; CC."</p> <div>  <p>1</p> </div> <p>Contd. Page-2</p> <div>  <p>Part of O. P. Jindal Group</p> </div>	<div>  <p><b>JSW Cement Limited</b>  Regd. Office : JSW Centre,  Bandra Kurla Complex,  Bandra (East), Mumbai - 400 051  CIN : U26957MH2006PLC160839  Phone : +91 22 4286 1000  Fax : +91 22 2650 2001</p> </div> <p>Now, we are in the process of developing the greenbelt / plantation along project site in line with the above EAC recommendations. We, therefore, humbly request you to kindly guide us on various aspects of greenbelt development viz. selection of species, spacing, density, measures to enhance survival rate etc. especially in arid/ semi-arid zones such as Nagaur.</p> <p>List of tree species recommended by the EIA consultant (M/s. JMEPL), is attached herewith as <b>Annexure-A</b> for your kind perusal please.</p> <p>Submitted for your kind consideration and guidance please.</p> <p>Thanking you,</p> <p><b>For M/s. JSW Cement Limited</b></p> <div>  <p>(Arvind Sharma)  <b>AVP - Environment &amp; Sustainability</b></p> </div> <p><b>Encl.:</b></p> <ol style="list-style-type: none"> <li>1. List of tree species recommended by the EIA consultant (M/s. JM Environment Pvt. Ltd.)</li> <li>2. Copy of the relevant pages of the MoM of 41<sup>st</sup> EAC meeting, Ind-1 sector, MoEF&amp;CC</li> </ol> <div>  <p>2</p> </div> <div>  <p>Part of O. P. Jindal Group</p> </div>
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ix.	Statutory compliance	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily	Agree to comply	CTE obtained in March'24 and the project construction activities are expected to start
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		implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 70 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.		soon. However, we have initiated socio-economic development activities from April-2024 onwards in the nearby villages in the fields of Education, Health & sanitation, Livelihood, Rural infrastructure development in line with our CER commitments.
x.	Miscellaneous	PP shall undertake village adoption programme, prepare and implement the action plan to develop them into model villages.	Agree to comply	We have identified 5 villages in the core zone namely Jindas, Bhadana, Manjhwas, Harima and Deh for adoption and developing them into model villages. An action plan has been worked out and the same is being implemented. Details of the activities will be submitted along with next six monthly compliance report, i.e.: 1 <sup>st</sup> Dec'24.
xi.	Statutory compliance	Transportation of limestone from mines shall be done only through overland belt conveyor (OLBC) for captive consumption in the cement plant. However, the limestone, if sold to external users, shall be transported by road.	Agree to comply	Project yet to be implemented. We have planned installation of OLBC from mines to cement plant and are committed to transport limestone from mines to cement plant through OLBC only for captive consumption.
xii.	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.	Agree to comply	We are in the process of signing an MoU with Rajasthan State Road Transport Corporation, Jaipur & Nagaur for deployment of bus service for the villagers. Bus operation will be started from July-2024 onwards.
xiii.	Miscellaneous	The Company shall engage an external agency/ consultant for carrying out a detailed baseline survey in Nagaur and nearby districts 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.	Agree to comply	We are in the process of engaging an external agency/ third party to conduct a 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.
xiv.	Miscellaneous	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with	Agree to comply	We have submitted the WLCP to the PCCF through CCF, Ajmer vide letter No.: F(16/29)

		the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.		Wildlife/CCF-Ajmer/2022-23/1226 dated 06/04/2023 on 10.04.2023. We are awaiting approval of WLCP from PCCF, Jaipur. 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.
<b>B. GENERAL CONDITIONS: -</b>				
<b>I. STATUTORY COMPLIANCE</b>				
i.	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.	Agree to comply	We shall obtain all the applicable approvals/permissions / consents before starting the construction work of the proposed project.
<b>II. AIR QUALITY MONITORING AND PRESERVATION</b>				
i.	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.	Agree to comply	Project yet to be implemented. CEMS and CAAQMS, as prescribed, will be installed and the same will be connected with the SPCB and CPCB online servers before start of the operations.
ii.	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. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside the plant area (at least at four locations one within and three outside the	Agree to comply	Construction activities yet not started. AAQ Monitoring will be conducted for the prescribed parameters within and outside the plant area after start of construction activities.

		plant area at an angle of 120° each), covering upwind and downwind directions.		
iii.	Air Quality 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.	Agree to comply	Fugitive emissions monitoring will be conducted by deploying NABL approved labs in the plant area after commissioning of the project.
iv.	Air Quality Monitoring And Preservation	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.	Agree to comply	The project is yet to be implemented. Sampling facility will be provided at all the process stacks after commissioning of the proposed project.
v.	Air Quality Monitoring And Preservation	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Agree to comply	Project yet to be implemented. We have planned to install appropriate Air Pollution Control (APC) system i.e.: RABH, Bag Filters/ESP /Water Sprinklers/ Mist System/ Covered Conveyor Belt/ Plantation during the project construction phase.
vi.	Air Quality Monitoring And Preservation	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Agree to comply	Project yet to be implemented. Leakage detection and mechanized bag cleaning facilities will be provided during the project construction phase.
vii.	Air Quality Monitoring And Preservation	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Agree to comply	Project yet to be implemented. Vacuum cleaners will be deployed to clean the plant roads, shop floors, roofs, regularly after commissioning of the project.
viii.	Air Quality Monitoring And Preservation	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Agree to comply	Project yet to be implemented. Internal transportation of material shall be done through covered conveyors. Leak proof trucks/ dumpers for carrying coal and other raw materials covered with tarpaulin will be used/allowed.
ix.	Air Quality Monitoring And Preservation	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	Complied	Not applicable in cement plants.



x.	Air Quality Monitoring And Preservation	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Agree to comply	Project yet to be implemented. Wind shelter fence and chemical spraying will be provided on the raw material stock piles during the project construction phase.
xi.	Air Quality Monitoring And Preservation	Design the ventilation system for adequate air changes as per prevailing norms for all Tunnels, Motor Houses, Oil Cellars.	Complied	Not applicable in cement plants.
xii.	Air Quality Monitoring And Preservation	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.	Agree to comply	Project yet to be implemented. CREP guidelines will be implemented during design, implementation and operation phases.
xiii.	Air Quality Monitoring And Preservation	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, absorbers and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	Agree to comply	Project yet to be implemented. Clean Air practices as applicable to cement plant shall be implemented during the construction phase. Adequate nos. of fog/mist water cannons shall be deployed during the operation phase.
xiv.	Air Quality Monitoring And Preservation	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.	Agree to comply	Project yet to be implemented. It has been planned to implement in-built bag cleaning system programmed for automatic bag cleaning at regular intervals. Efficiency of process bag filters will be monitored manually at least once in year after commissioning of the project.
xv.	Air Quality Monitoring And Preservation	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.	Agree to comply	Project yet to be implemented. Water Sprinkler/Mist system will be provided at all the prescribed points.
xvi.	Air Quality Monitoring And Preservation	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm <sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient	Agree to comply	Project yet to be implemented. We have planned to install bag filters/ESPs to control emission below 30 mg/Nm <sup>3</sup> at all

		Air monitoring equipment shall be installed.		process stacks and the same will be provided during the implementation phase.
xvii.	Air Quality Monitoring And Preservation	Following additional arrangements to control fugitive dust shall be provided:	Agree to comply	Project yet to be implemented.
		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.	Agree to comply	Project yet to be implemented. JSW will provide the Fog/Mist Sprinklers at all on bulk raw material storage area.
		b. Proper covered vehicle shall be used while transport of materials.	Agree to comply	Project yet to be implemented. Proper covered vehicle will be used while transport of materials.
		c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	Agree to comply	Project yet to be implemented. Wheel washing mechanism will be provided in entry and exit gates.
xviii.	Air Quality Monitoring And Preservation	Provide Low NOx burners as primary measures and SCR/NSCR technologies as secondary measure to control NOx emissions.	Agree to comply	Project yet to be implemented. Low NOx burners and Low NOx calciner have been planned to be installed during the implementation phase. SCR/ SNCR technologies will be provided, if required to control the NOx emission after commissioning of the project.
xix.	Air Quality Monitoring And Preservation	The emission norms applicable for the cement plant shall be adhered to.	Agree to comply	Project yet to be implemented. The emission norms applicable to cement plants shall be adhered to during the implementation as well as operation phase of the project.
xx.	Air Quality Monitoring And Preservation	Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.	Agree to comply	Project yet to be implemented. Dioxin and Furan will be monitored once in six months during the operation of plant.
xxi.	Air Quality Monitoring And Preservation	DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm <sup>3</sup> by using best available technology.	Agree to comply	Project yet to be implemented. 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/Nm <sup>3</sup> .
xxii.	Air Quality Monitoring And Preservation	Petcoke dosing shall be controlled automatically to control SO <sub>2</sub> emission from chimney within the prescribed limits.	Agree to comply	Project yet to be implemented. Petcoke dosing will be controlled automatically to control SO <sub>2</sub> emission from the stack.

xxiii.	Air Quality Monitoring And Preservation	PP shall identify the source of fluoride emissions and action plan to mitigate the same shall be implemented.	Agree to comply	Project yet to be implemented. There is no known source of fluoride. However, the source of fluoride emission (possibly raw materials/ fuel or water), if any, shall be identified and action plan to mitigate the same, if required, shall be implemented during operation of the plant.
xxiv.	Air Quality Monitoring And Preservation	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	Agree to comply	Project yet to be implemented. The CREP guidelines to control the pollution within Cement Plant premises shall be strictly implemented.
<b>III. WATER QUALITY MONITORING AND PRESERVATION</b>				
i.	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.	Agree to comply	Project yet to be implemented. CEMS to be installed at WHRS to monitor the effluent quality and same will be connected to SPCB and CPCB online servers.
ii.	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.	Agree to comply	Project yet to be implemented. Ground water quality monitoring at least twice a year (pre- and post-monsoon) in the plant and adjacent areas shall be started after start of project construction activities.
iii.	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.	Agree to comply	Project yet to be implemented. 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.
iv.	Water Quality Monitoring And Preservation	Water meters shall be provided at the inlet to all unit processes in the plants.	Agree to comply	Project yet to be implemented. Water meters will be provided at the inlet of all processes in the plant premises during the implementation phase.
v.	Water Quality Monitoring	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used	Agree to comply	Project yet to be implemented. Efforts shall be made to minimise water consumption

	And Preservation	water, practicing cascade use and by recycling treated water.		in the plant complex. Waste water will be treated and reused for dust suppression / plantation purpose within cement plant premises.
vi.	Water Quality Monitoring And Preservation	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.	Agree to comply	Project yet to be implemented. The project will be designed on "Zero Liquid Discharge" concept. ETP will be installed for treatment of effluents generated from WHR process and there will be no discharge of effluent from the plant premises.
vii.	Water Quality Monitoring And Preservation	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.	Agree to comply	Project yet to be implemented. At the design stage, provision for 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.
viii.	Water Quality Monitoring And Preservation	Rain water harvesting shall be implemented to recharge/ harvest water as per the action plan submitted in the EIA/EMP report.	Agree to comply	Rain water harvesting systems such as rooftop RWH, WH pond etc. shall be provided during the implementation phase.
<b>IV. NOISE MONITORING &amp; PREVENTION</b>				
i.	Noise Monitoring & Prevention	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Agree to comply	Project construction activities yet to be started. Noise level monitoring will be conducted after start of project construction work and later regular reports will be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
ii.	Noise Monitoring & Prevention	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.	Agree to comply	Project construction activities yet to be started. Ambient Noise level monitoring will be conducted after start of project construction work.
<b>V. ENERGY CONSERVATION MEASURES</b>				
i.	Energy Conservation Measures	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking	Agree to comply	Project yet to be implemented. Solar power generation on roof tops of buildings for solar light system for all common areas,

		around project area and maintain the same regularly.		street lights, parking around project area will be provided and it will be maintained on regular basis after commissioning of the proposed project.
ii.	Energy Conservation Measures	Provide LED lights in their offices and residential areas.	Agree to comply	LED lights will be provided in offices and residential areas as soon as the offices and residential areas are constructed.
iii.	Energy Conservation Measures	The project proponent make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	Agree to comply	Project yet to be implemented. Efforts will be made to achieve the prescribed energy levels post commissioning of the project.
iv.	Energy Conservation Measures	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.	Agree to comply	Project yet to be implemented. Products are designed to utilize fly ash, slag (if available) and limestone sweetener to the maximum extent while meeting the quality as well as BIS requirements.
v.	Energy Conservation Measures	Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.	Agree to comply	Project yet to be implemented. The project/process has been designed for utilization of up to 30% of AFR which is one of the best practices in Indian cement industry. Necessary systems will be provided during the implementation phase.
vi.	Energy Conservation Measures	Waste heat recovery system shall be provided for kiln and cooler.	Agree to comply	WHRS of capacity 54 MW (18 MW in each line) shall be provided during the project implementation phase.
<b>VI. WASTE MANAGEMENT</b>				
i.	Waste Management	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.	Agree to comply	Project yet to be implemented.
ii.	Waste Management	Kitchen waste shall be composted or converted to biogas for further use.	Agree to comply	Systems for composting of kitchen waste and conversion to bio gas will be implemented after construction of canteen/kitchen in the plant/residential premises.
iii.	Waste Management	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement	Complied	There is no any source of fly ash generation in the proposed

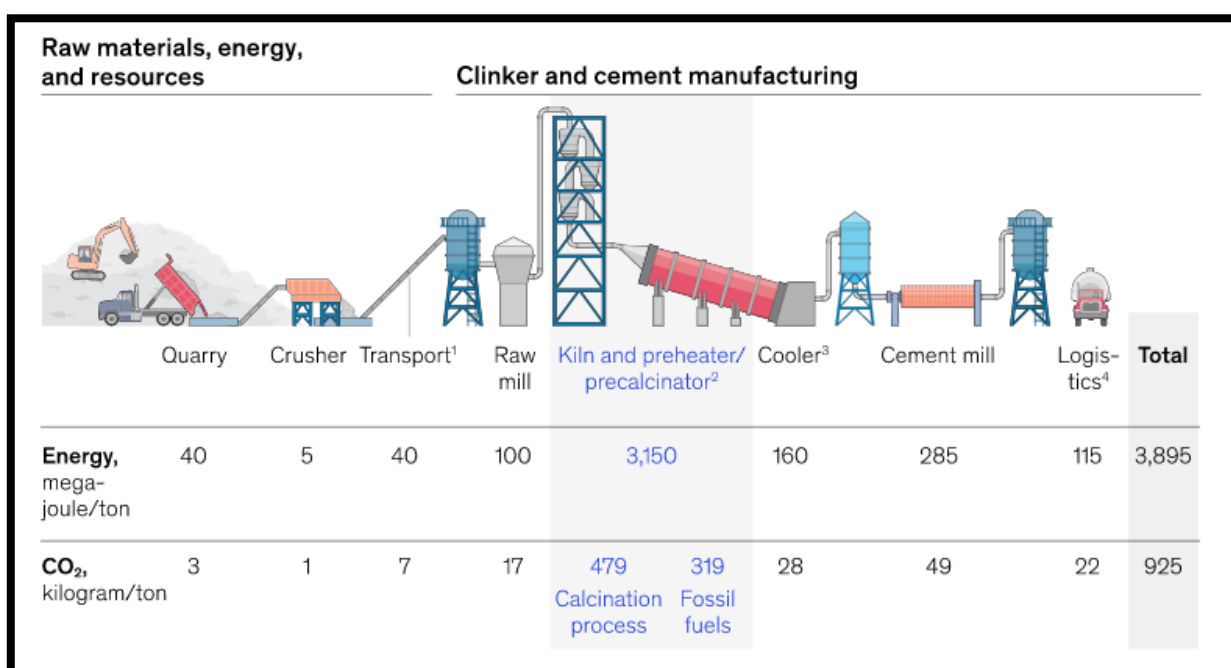
		and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.		project and therefore this condition is not applicable to us.
iv.	Waste Management	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.	Agree to comply	As part of our organization's policy, SUP is banned at our plant locations.  Regular awareness sessions will be organized for the people working in the project area and also in the surrounding areas. A report along with photographs will be submitted along with next six monthly compliance report, i.e. 1 <sup>st</sup> Dec'24.
v.	Waste Management	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	Agree to comply	Project construction activities are yet to be started. So far, no E-waste has been generated. Disposal of E-waste will be done as per E-waste disposal plan incorporated in the EIA report.
vi.	Waste Management	PP shall recycle/reuse solid waste generated in the plant as far as possible.	Agree to comply	Project construction activities are yet to be started and as such no solid waste has been generated. However, the solid waste, as and when generated will be reused/recycled to the maximum possible extent. Unused/unusable solid waste will be scientifically disposed.
<b>VII.</b>	<b>GREEN BELT</b>			
i.	Green Belt	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Agree to comply	GHG emission inventory as well as plan for reduction including sequestration has already been prepared and incorporated in the EIA. A copy

of the same is enclosed below. The plan will be implemented during project implementation and operation phase.

### Decarbonization Plan by JSW Cement Limited

In the cement-manufacturing process, raw materials are heated to high temperatures in a kiln in a fuel-intensive process known as pyro-processing. This results in clinker, small lumps of stony residue that are ground to a powder and combined with other ingredients to produce cement.

The cement industry alone is responsible for about a quarter of all industry CO<sub>2</sub> emissions, and it also generates the most CO<sub>2</sub> emissions per dollar of revenue. About two-thirds of those total emissions result from calcination, the chemical reaction that occurs when raw materials such as limestone are exposed to high temperatures.



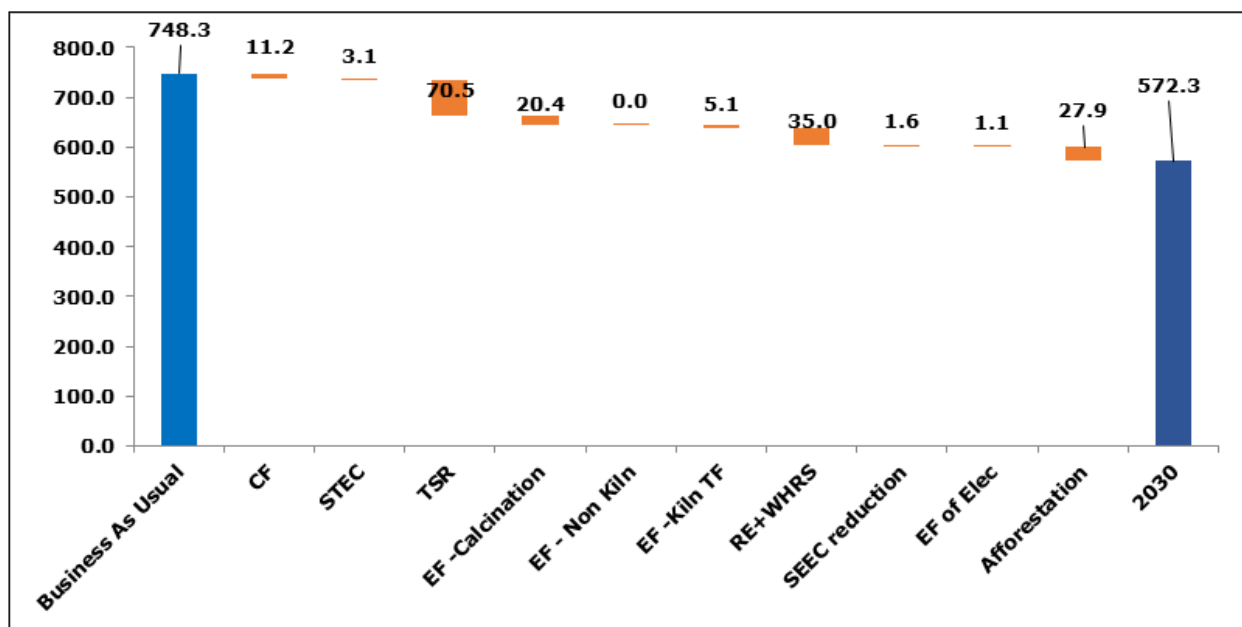
**Figure 1.1: Cement Manufacturing Process and CO<sub>2</sub> emissions**

JSW cement is known to have the lowest CO<sub>2</sub> emission intensity not only in India but in the world. Its current emissions (220 kg/T) is almost 1/3rd of the global average. Going ahead, we intent to main the leadership position by working on all the levers as a part of its decarbonization roadmap contributing to its Net Zero commitment by 2050. Last year, JSW cement became the first company in the sector to commit to all three initiatives RE100, EV100 and EP100 in one go. We also signed the UN Energy Compact as per which we have set a target of reaching 30% Thermal Substitution Rate by 2030.

Building on the same commitment and strategy, at Nagaur plant also, we aim to make our emission intensity lowest in the world. Thus, we are setting up a plant with all state-of-art-facilities and latest technologies which will help us reduce the emission intensity significantly. Apart from initial energy efficient technologies, we will further work on new initiatives will be undertaken in a time-bound manner which will further decarbonize our operations as well as supply chain.

Since the plant will be serving as a mother plant to many grinding units, it will be producing more clinker and thus will have higher emission intensity. In Business-as-usual case, we would be emitting almost 750kg/T of CO<sub>2</sub> but with following interventions, we plan reduce it 560 kg, a reduction of 24% in 5 years:

Sr. No.	Levers	Targets	Action plans	CO <sub>2</sub> intensity reduction
1	To increase the TSR by 30% by 2030	10% by FY26 20% by FY28 30% by FY30	To increase use of industrial waste/ RDF/ Biomass waste	9%
2	To enhance the WHRS+RE portfolio by 50% by 2030	15% by FY26 30% by FY28 50% by FY30	54MW WHRS plant by FY26 21MW Solar by 2030.	5%
3	To reduce the average clinker factor by 5% by 2030 vis-à-vis 2025	1% by FY26 3% by FY28 5% by FY30	Use of Alternative Material. Production of LC3 and other R&D efforts.	1%
4	To reduce the energy efficiency (thermal and electrical) by 2030	1% by FY27 3% by FY28 5% by FY30	Energy Efficiency Projects	1%
5	Others – Reducing Emission Factors of Traditional Fuel, Raw materials, Electricity		Using Petcoke, Using AR replacing limestone, Greening of Grid	4%
6.	Afforestation - Carbon sequestration	2 L Trees by FY26 4 L Trees by FY27 6 L Trees by FY28 8 L Trees by FY30	By planting almost 8 Lakh trees over the years	4%
<b>Total Reduction by FY30 vs FY26</b>				<b>24%</b>



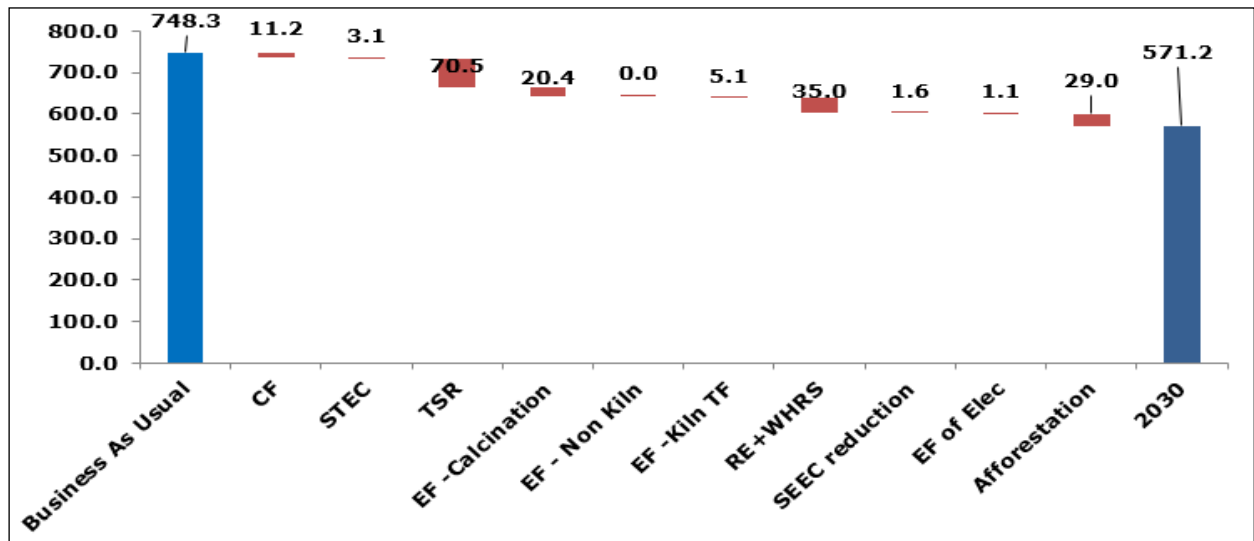
*\*Business as Usual: Without considering any AFR co-processing, WHRS/RE, any Carbon sequestration or product innovation.*

EF - Emission Factor, STEC - Specific Thermal Energy Consumption and TSR – Thermal Substitution Rate

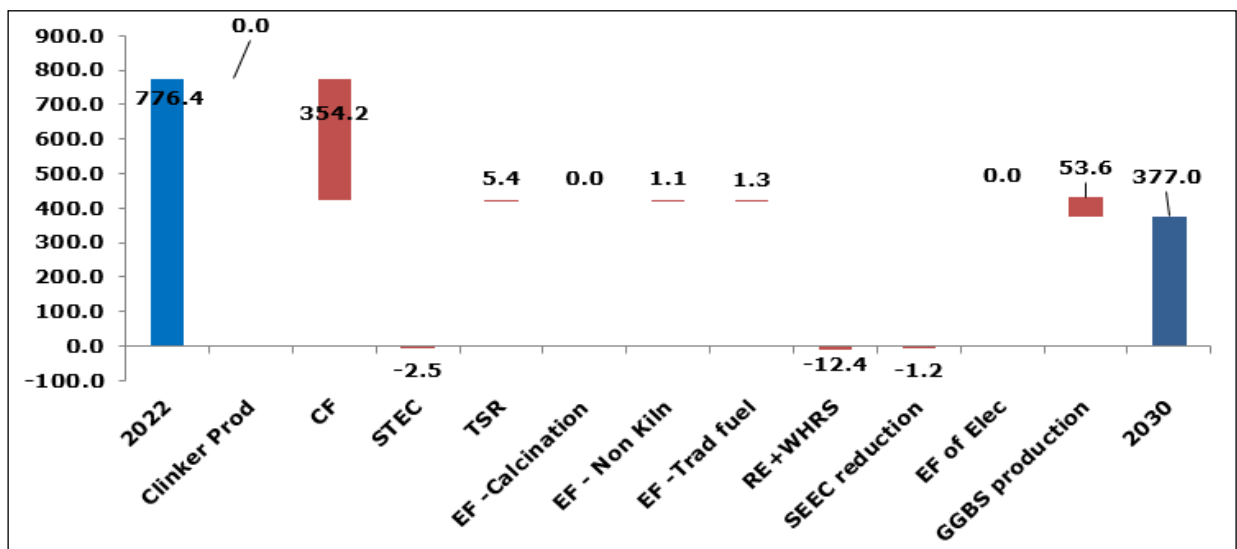


CO<sub>2</sub> Road Map: -

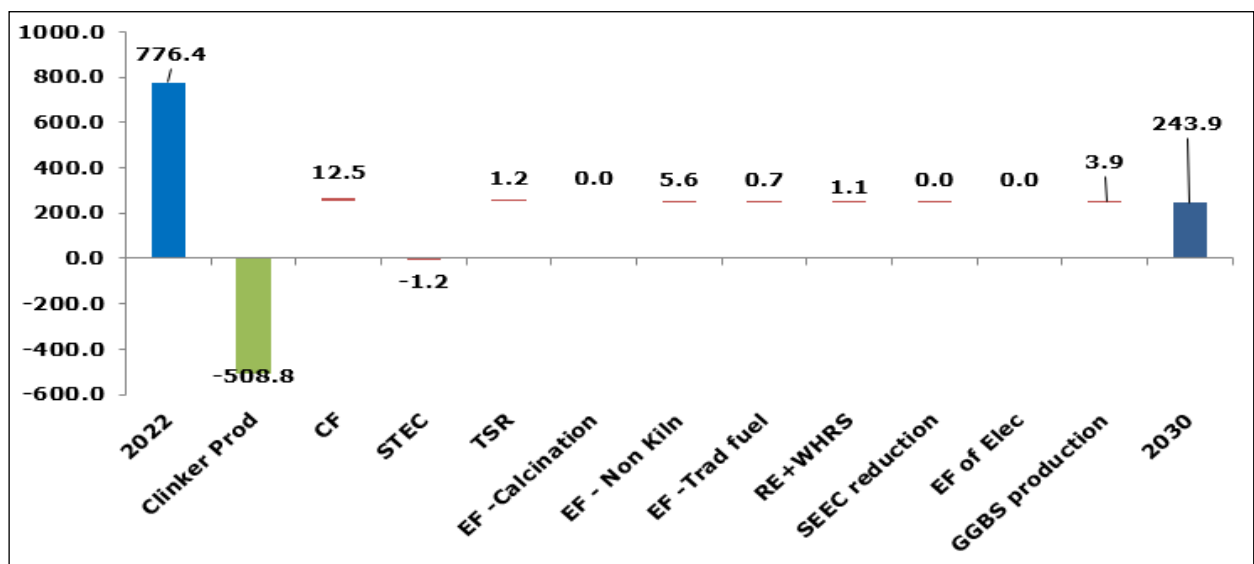
FY 25 vs 26:



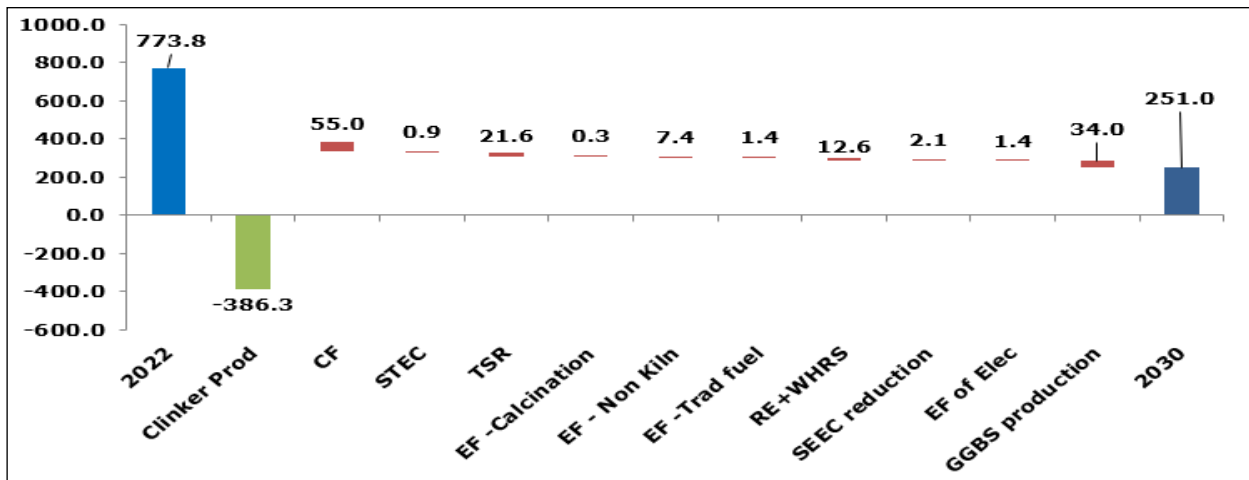
FY 25 vs 26:



FY 25 vs 28:



FY 25 vs 29:




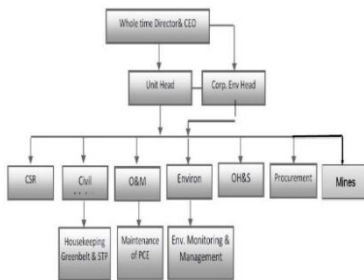


Action Plan of JSW cement to achieve Five commitments announced by Hon'ble Prime Minister during COP 26 climate change summit at Glasgow.

COMMITMENT	
JSW Cement is committed to achieve the targets as mentioned below -	
Commitments Amrit tatva	Implementation status by JSW Cement
<b>Commitment - 1</b> By 2030, India will bring its non - fossil energy capacity to 500 GW.	Currently at JSW Cement has got 4% of clean and green energy portfolio which it plans to take to ~60% by 2030. The company has 5.45 MW and ~3.5 MW solar power plant utilised at the Nandyal and the Salboni units, respectively. We have consumed 15 million units of solar power in FY 2021-22, as against 11.5 million units in FY 2020-21
<b>Commitment - 2</b> By 2030, India will fulfil 50 percent of its energy requirements with renewable energy.	Presently, <b>JSW Cement is meeting around 4% of power requirement through green energy sources</b> The company is installing <b>Waste Heat Recovery Systems (WHRS) of 12.29 MW and 9.0 MW capacity at the Nandyal and Shiva</b> and with two WHRS coming in this year, this percentage will reach ~20% in next year. The company is also investing in new renewable energy projects primarily solar project to further enhance the share of green energy in total power consumption. The company has committed to RE100 as per which it will reach 60% RE by 2030, 90% by 2040 and 100% RE by 2050.
<b>Commitment - 3</b> India will reduce one billion tonnes of the total projected carbon emission between now and 2030.	JSW Cement is the company with the lowest net CO <sub>2</sub> emissions intensity, not in India but globally also. As per GCCA, while the global and national average was 590kg and 543 kg in 2020, JSW Cement's emission intensity was 220kg/T of cementitious materials in FY22. The company has committed to GCCA 2050 Cement and Concrete Industry Roadmap for Net Zero Concrete by 2050.
<b>Commitment - 4</b> By 2030, India will bring its economy's carbon intensity down to 45%.	<ul style="list-style-type: none"> <li>○ The company has committed to the Science-Based Targets initiative (SBTi) last year and developing its targets.</li> <li>○ The company has raise sustainability linked loan (SLL) which are linked to CO<sub>2</sub> intensity reduction targets.</li> <li>○ Under SLL, company aims to reduce Scope 1+2 CO<sub>2</sub> emission intensity by 15% by FY2026 from the base year FY2021.</li> </ul>

	<p><b>Commitment - 5</b> India will achieve the targets of net zero emission by 2070.</p> <p>Being a member to GCCA, JSW is committed to follow GCCA's roadmap to net zero concrete by 2050. The company is the first company to have committed to RE100, EV100 and EP100 in one go. Company will contribute in achievement of fully decarbonise the cement and concrete industry and provide net zero concrete for the world.</p>			
ii.	Green Belt	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 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.	Agree to comply	We shall conduct the study on decarbonisation while taking into account all the prescribed parameters/points and shall submit the study report to IRO MoEF&CC.
iii.	Green Belt	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Agree to comply	Project yet to be implemented. Paving of areas such as roads and floors will be started with the start of construction activities. Greening of vacant spaces with lawns/ grasses/ herbs/ shrubs etc. will be undertaken post completion of all civil construction activities.
<b>VIII. PUBLIC HEARING AND HUMAN HEALTH ENVIRONMENT</b>				
i.	Public Hearing and Human Health Issues	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Agree to comply	Project yet to be implemented. Emergency Preparedness Plan and Disaster Management Plan will be implemented during the project implementation phase.
ii.	Public Hearing and Human Health Issues	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Agree to comply	Project yet to be implemented. Heat stress analysis for the workmen who work in high temperature work zone shall be carried out after commissioning of the project. Suitable PPE's will be provided as per the norms.
iii.	Public Hearing and Human Health Issues	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	Agree to comply	We are committed to provide temporary housing for construction labour with all necessary infrastructure and

		STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.		basic facilities within the project site before start of project construction activities.
iv.	Public Hearing and Human Health Issues	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Agree to comply	Occupational health surveillance of the workers will be implemented with the start of project construction activities. Records will be maintained as per statutory requirements.
<b>IX. ENVIRONMENT MANAGEMENT</b>				
i.	Corporate Environment Management	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 <b>Corporate Environment Responsibility (CER)</b> activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the Village Panchayat and the District Administration as committed.	Agree to comply	We are planning to implement the CER activities from next financial year onwards. We have already identified 5 villages in the core zone namely Jindas, Bhadana, Manjhwas, Harima and Deh for adoption and developing them into model villages. A socio economic survey has also been carried out by our CSR team. We are in the process of consultation with the concerned village panchayats for finalization of community development activities to be undertaken in the adopted villages.
ii.	Corporate Environment Management	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 infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of 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.	Complied	An environmental policy duly approved by the Board of Directors of JSWCL is in place and is incorporated in the EIA report. Copy of the Board Resolution for the Corporate Environment Policy is presented below:

	<div><div></div><div><div>JSW Cement Limited</div><div>JSW Centre Opp. MMRDA Ground, Bandra Kurla Complex, Bandra (East), Mumbai - 400 051. Tel : +91-22-4286 1000 Fax : 26502001 Website: www.jswcement.in CIN :- U26957MH2006PLC160839</div></div></div> <div>CERTIFIED TRUE COPY OF THE RESOLUTION PASSED AT THE MEETING OF THE BOARD OF DIRECTORS OF JSW CEMENT LIMITED HELD ON WEDNESDAY, 24<sup>TH</sup> OCTOBER 2018 IN BOARD ROOM, 9<sup>TH</sup> FLOOR, JSW CENTRE, BANDRA KURLA COMPLEX, BANDRA (EAST), MUMBAI – 400051.</div> <div>APPROVAL OF CORPORATE ENVIRONMENT POLICY</div> <div>"RESOLVED THAT the Corporate Environment Policy be and is hereby approved.</div> <div>RESOLVED FURTHER THAT the Executive Director and/or Occupier of the Plant be and is hereby responsible for implementation and compliance of the Corporate Environment Policy (CEP) approved by the Board of Directors of the Company."</div> <div>For JSW Cement Limited</div> <div><div></div><div><div>Rahul Dubey Company Secretary FCS-8145 Date: 01.11.2018 Place: Mumbai</div><div></div></div></div>			
iii.	Corporate Environment Management	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of Senior Executive, who will directly to the head of the organization.	Complied	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. <div></div>
iv.	Corporate Environment Management	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.	Agree to comply	Project yet to be implemented. Performance test will be conducted on all pollution control systems every year post commissioning of the project.
X.	MISCELLANEOUS			
i.	Miscellaneous	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 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.	Complied	Grant of EC to the project was duly advertised within 7 days in two local newspapers i.e.. Times of 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.

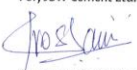


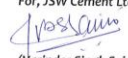









ii.	Miscellaneous	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied	Copies of EC have been submitted to the Heads of local bodies, Panchayats and Municipal Bodies and other relevant offices of the Government for display the same for 30 days from the date of receipt. Receipts of the same are enclosed below.
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 <p style="text-align: right;"><b>JSW Cement Limited</b> Regd. Office : JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai - 400 051 CIN : L26957MH2006PLC160839 Phone : +91 22 4286 1000 Fax : +91 22 2650 2001 Website : www.jsw.in</p> <p>JSWCL/RAJ/CP-EC/155 <span style="float: right;">Date: 20/10/2023</span></p> <p>To,</p> <p><b>The District Collector,</b> Nagaur Road, RJ SH 19, Nagaur, Rajasthan-341001</p> <p><b>Sub.:</b> Proposed Integrated Cement Plant with Clinker Production Capacity of 12.0 Million TPA, Calcined Clay Production Capacity-1.5 Million TPA, Cement Production Capacity 5.0 Million TPA (OPC/PPC/PSC/Composite Cement/LC3/PLC), WHRB based Power Plant - 54 MW, DG Sets of 6000 KVA, Oxygen Plant of capacity 160 m<sup>3</sup>/hr., AFR Pre-processing/Co-processing Facility and Railway Siding with Wagon Tippler by located at Villages - Bhadana &amp; Jindas, Tehsil - Nagaur, District - Nagaur, Rajasthan by M/s. JSW Cement Ltd. - <b>Submission of Copy of Environment Clearance.</b></p> <p><b>Ref.:</b> Environment Clearance letter issued by MoEF&amp;CC vide File No: IA-J-11011/355/2022-IA-II (IND-I) dated 27<sup>th</sup> September, 2023</p> <p>Sir,</p> <p>With reference to the aforesaid subject; we would like to inform you that M/s. JSW Cement Ltd. applied for obtaining Environmental Clearance to MoEF&amp;CC, New Delhi on 20<sup>th</sup> July, 2023 and Environment Clearance for the above-mentioned project has been granted by MoEF&amp;CC vide File No: IA-J-11011/355/2022-IA-II(IND-I) dated 27<sup>th</sup> September, 2023.</p> <p>Now, as per the EC General Condition No.: X (ii), we are hereby submitting you the copy of Environment Clearance for the above said project for your kind consideration &amp; record.</p> <p>Thanking you &amp; with regards,</p> <p>For, JSW Cement Ltd.</p> <p> (Varinder Singh Saini) AVP - Land &amp; Liaison</p> <p>Encl.: As above</p> <p> Part of O. P. Jindal Group</p>	 <p style="text-align: right;"><b>JSW Cement Limited</b> Regd. Office : JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai - 400 051 CIN : L26957MH2006PLC160839 Phone : +91 22 4286 1000 Fax : +91 22 2650 2001 Website : www.jsw.in</p> <p>JSWCL/RAJ/CP-EC/156 <span style="float: right;">Date: 20/10/2023</span></p> <p>To,</p> <p><b>Regional Officer,</b> <b>Rajasthan State Pollution Control Board,</b> Regional Office, Nagaur, 1<sup>st</sup> Floor, Sahkari Bhumi Vikas Bank Ltd., College Road, Opposite Police Line, Nagaur, Rajasthan-341001</p> <p><b>Sub.:</b> Proposed Integrated Cement Plant with Clinker Production Capacity of 12.0 Million TPA, Calcined Clay Production Capacity-1.5 Million TPA, Cement Production Capacity 5.0 Million TPA (OPC/PPC/PSC/Composite Cement/LC3/PLC), WHRB based Power Plant - 54 MW, DG Sets of 6000 KVA, Oxygen Plant of capacity 160 m<sup>3</sup>/hr., AFR Pre-processing/Co-processing Facility and Railway Siding with Wagon Tippler by located at Villages - Bhadana &amp; Jindas, Tehsil - Nagaur, District - Nagaur, Rajasthan by M/s. JSW Cement Ltd. - <b>Submission of Copy of Environment Clearance.</b></p> <p><b>Ref.:</b> Environment Clearance letter issued by MoEF&amp;CC vide File No: IA-J-11011/355/2022-IA-II (IND-I) dated 27<sup>th</sup> September, 2023</p> <p>Sir,</p> <p>With reference to the aforesaid subject; we would like to inform you that M/s. JSW Cement Ltd. applied for obtaining Environmental Clearance to MoEF&amp;CC, New Delhi on 20<sup>th</sup> July, 2023 and Environment Clearance for the above-mentioned project has been granted by MoEF&amp;CC vide File No: IA-J-11011/355/2022-IA-II(IND-I) dated 27<sup>th</sup> September, 2023.</p> <p>Now, as per the EC General Condition No.: X (ii), we are hereby submitting you the copy of Environment Clearance for the above said project for your kind consideration &amp; record.</p> <p>Thanking you &amp; with regards,</p> <p>For, JSW Cement Ltd.</p> <p> (Varinder Singh Saini) AVP - Land &amp; Liaison</p> <p>Encl.: As above</p> <p> Part of O. P. Jindal Group</p>
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**JSW Cement Limited**

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JSWCL/RAJ/CP-EC/158

Date: 20/10/2023

To,

**The Chief Executive Officer,**  
Zila Parishad, Circuit House Road,  
Near NH PWD Office, Amar Singh Colony,  
Nagaur-341001 (Rajasthan)

**Sub.:** Proposed Integrated Cement Plant with Clinker Production Capacity of 12.0 Million TPA, Calcined Clay Production Capacity-1.5 Million TPA, Cement Production Capacity 5.0 Million TPA (OPC/PPC/PSC/Composite Cement/LC3/PLC), WHRB based Power Plant - 54 MW, DG Sets of 6000 KVA, Oxygen Plant of capacity 160 m<sup>3</sup>/hr., AFR Pre-processing/Co-processing Facility and Railway Siding with Wagon Tippler by located at Villages - Bhadana & Jindas, Tehsil - Nagaur, District - Nagaur, Rajasthan by M/s. JSW Cement Ltd. - **Submission of Copy of Environment Clearance.**

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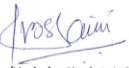
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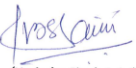
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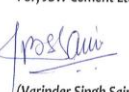




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iii.	Miscellaneous	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Agree to comply	Project yet to be implemented Status of compliance of the stipulated EC conditions shall be uploaded on the Company's website w.e.f. 1 <sup>st</sup> June, 2024.
iv.	Miscellaneous	The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) 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.	Agree to comply	Project construction activities yet to start. AAQ monitoring will be started after start of construction activities. Similarly, stack emission monitoring will be undertaken after project commissioning. Monitored data will be duly displayed on the Company's website is due course.

v.	Miscellaneous	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented.	Agree to comply	Project yet to be implemented. JSW will develop connecting and internal road as per IRC guidelines.
vi.	Miscellaneous	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied	This is first compliance report. We will submit six-monthly compliance report on regular basis by uploading on the website of the MoEF&CC at EC portal.
vii.	Miscellaneous	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Agree to comply	Project yet to be implemented. Environmental statement for each financial year in Form-V will be submitted after commissioning of the plant operation.
viii.	Miscellaneous	The project proponent 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, commencing the land development work and start of production operation by the project.	Complied	Date of financial closure: 10/05/2024. Date of final approval of the project: 10/05/2024. Date of commencement of land development work: 10/05/2024. Date of start of production operation: Will be provided after commencement of production operations.
ix.	Miscellaneous	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agree to comply	We shall abide by all the commitments & recommendations made in the EIA/EMP report, commitment made during PH and during presentation to the EAC.
x.	Miscellaneous	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Agree to comply	WLCP for Schedule-I species has been prepared and submitted to DFO, Nagaur vide letter no.: F()TK/CCF/2022-23/1969 dated: 29 <sup>th</sup> March, 2023, after that WLCP has been forwarded to PCCF Jaipur for approval of WLCP vide letter No.: F16(29)wildlife/CCF/2022-23/1266 dated 6 <sup>th</sup> April, 2023. Final approval from PCCF is awaited.
xi.	Miscellaneous	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other	Agree to comply	Project yet to be implemented. The details of the said expenditures will be uploaded

		commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.		on our company website post start of project implementation.
xii.	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).	Agree to comply	No further expansion or modifications in the plant will be carried out without prior approval/EC.
xiii.	Miscellaneous	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agree to comply	Noted and agreed.
xiv.	Miscellaneous	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agree to comply	Noted and agreed.
xv.	Miscellaneous	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agree to comply	Noted and agreed.
xvi.	Miscellaneous	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Agree to comply	We shall extend full cooperation to the officer(s) of the RO by furnishing the requisite data's.
xvii.	Miscellaneous	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.	Complied	There is no any appeal against this EC.

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