



सत्यमेव जयते

File No: IA-J-11011/355/2022-IA-II(IND-I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
IA Division  
\*\*\*



Date 27/09/2023



To,

M/s JSW CEMENT LTD  
JSW Cement Ltd., JSW Centre, Bandra Kurla Complex Bandra (East), MUMBAI , Mumabi,  
MUMBAI, MAHARASHTRA, Bandra Kurla Complex, 400051  
E-mail: ceo.cement@jsw.in

**Subject:** 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 Village-Bhadana & Jindas, Teh-Nagaur , Dist-Nagaur, Rajasthan - Grant of EC Regarding.

Sir/Madam,

This refers to your proposal no. IA/RJ/IND1/432291/2023 dated 20<sup>th</sup> July, 2023 along with copy of EIA report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. Further, the PP has uploaded the information on portal on 17.08.2023.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A1102RJ5384064N
(ii) File No.	IA-J-11011/355/2022-IA-II(IND-I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(b) Cement plants
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	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 at Village-Bhadana & Jindas, Teh-Nagaur , Dist-Nagaur, Rajasthan-341001
<b>(viii) Name of Company/Organization</b>	M/s JSW CEMENT LTD
<b>(ix) Location of Project (District, State)</b>	NAGOUR, RAJASTHAN
<b>(x) Issuing Authority</b>	MoEF&CC
<b>(xi) Applicability of General Conditions as per EIA Notification, 2006</b>	No

3. The proposed project activity is listed at S. No. **3(b) Cement Plants under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level.**

4. The instant Proposal was considered in the **41<sup>st</sup> EAC Meeting held during 2nd, 4th & 8th August 2023** wherein after detailed deliberations, the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>. The PP has uploaded the information on portal on 17.08.2023.

5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are at **Annexure-I**.

6. The EAC, in its 41<sup>st</sup> meeting held during 2nd , 4th & 8th August 2023, inter-alia, deliberated the following:

(i) The instant proposal is for setting up of an 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.

(ii) The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

(iii) The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

(iv) The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

(v) The total project area is 194.5560 ha. [Private Agriculture: (192.4838) & Government: (2.0722)]. The PP has reported that So far 132.3558 Ha (68%) of the land has been purchased, mutation done and the land is under the possession of JSW Cement. Purchase of remaining land as well as allotment of government land is under progress and same is expected to be completed by Oct'23. Online applications for Conversion of Land Use were

submitted to State Revenue deptt. on 15.06.2023, 17.06.2023 and 24.07.2023. So far, NOCs have been received from State Forest deptt and the Executive Engineer, Deptt. of Public Works. Grant of NOC from other departments is in progress and expected to be received by Sept' 23. PP has further reported that they have received consents of the land owners for sale of their land to JSW Cement.

(vi) 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. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact on the habitation of the locals.

(vii) There are many water bodies which exists within the study area of 10 km of the project site. The EAC is of the opinion that the water bodies shall not be disturbed. Action plan comprising of mitigation measures for conservation of the water bodies shall be implemented.

(viii) The total water requirement for the proposed project is estimated as 4180 m<sup>3</sup>/day; out of which 3960 m<sup>3</sup>/day will be met from saline ground water after prior approval from competent authorities and 220 m<sup>3</sup>/day requirement will be met through treated waste water. The EAC is of the opinion that necessary permission shall be obtained from competent authority prior to commencement of project. 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.

(ix) Two {Indian Gazelle/ Chinkara (*Gazella bennettii*\*) & Indian pea fowl (*Pavo cristatus*)} Schedule – I species were recorded in the study area during field survey; according to (IWPA) Indian Wildlife Protection Act, 1972 and its amendment Wildlife Conservation Plan for all the above-mentioned 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 which has now been forwarded to letter PCCF Jaipur for approval of wildlife conservation plan vide letter no. F16(29)wildlife/CCF/2022-23/1266 dated: 6<sup>th</sup> April, 2023. Final approval from PCCF is awaited.

(x) The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and found it satisfactory.

(xi) PP reported that greenbelt will be developed in 64.6466 ha are which is about 33.23% of the total project area in consultation with Central Arid Zone Research Institute (CAZRI) Jodhpur. However, the width of greenbelt at the plant periphery towards the village hamlet Jindas (western side) will be kept > 30 M. Approximately Total no. of 1,61,620 trees is proposed to be planted in 64.6466 ha in 3 years. The EAC deliberated on the greenbelt action plan along with the budget earmarked and is of the opinion that as committed, the Company shall plant 75,000 nos of trees in this monsoon season, i.e. upto Oct, 23 and the maximum nos. of tree plantation shall be done by the end of 2024.

(xii) The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.

(xiii) The Committee also deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.

(xiv) The EAC also deliberated on the submitted written representation of project proponent and found it satisfactory.

(xv) The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

(xvi) The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. 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. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

(xvii) The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions

7. The EAC (Industry-1 Sector), in its 40<sup>th</sup> meeting held during 2nd, 4th & 8th August 2023, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance subject to stipulation of specific and general EC conditions as detailed in the point below.

8. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1 Sector) hereby decided to grant **Environment Clearance for instant proposal of M/s JSW Cement Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (**Annexure-III**).

9. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

10. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

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

12. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

13. This issues with approval of the competent authority.

**(Dr. R. B. Lal)**  
**Scientist 'F'/Director**  
Tel: 011-20819346  
[Email-rb.lal@nic.in](mailto:Email-rb.lal@nic.in)

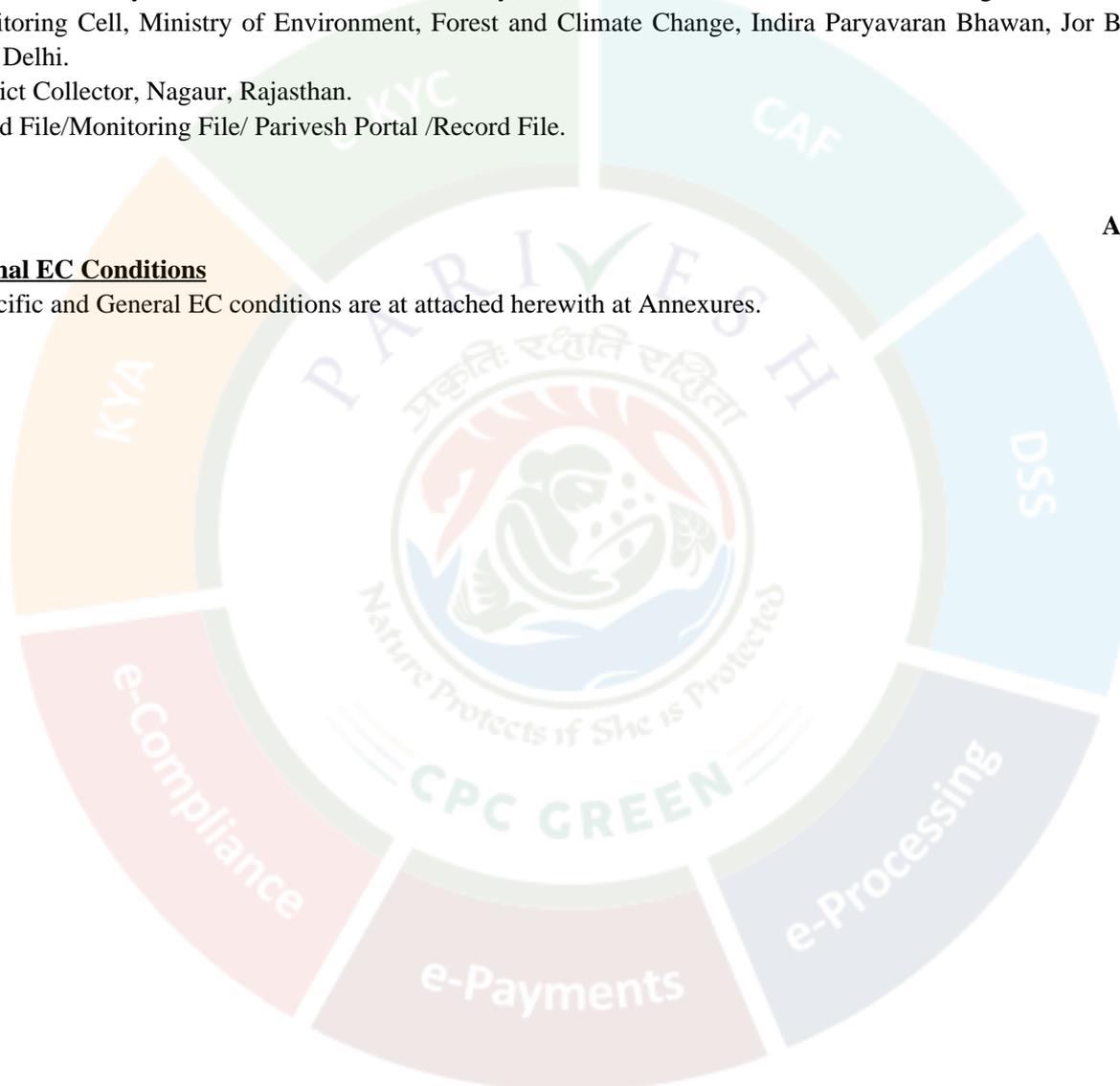
**Copy To**

1. The Principal Secretary, Environment & Forests Department, Government of Rajasthan, Secretariat, Jaipur (Rajasthan).
2. Principal Chief Conservator of Forests, (HOFF), Aranya Bhawan, MG Road, Jhalana Institutional Area, Jaipur, Rajasthan 302 004.
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Jaipur, A-209 & 218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan.
5. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
6. The Member Secretary, Rajasthan State Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongri, Jaipur (Rajasthan).
7. Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
9. District Collector, Nagaur, Rajasthan.
10. Guard File/Monitoring File/ Parivesh Portal /Record File.

#### Annexure 1

#### **Additional EC Conditions**

The Specific and General EC conditions are at attached herewith at Annexures.

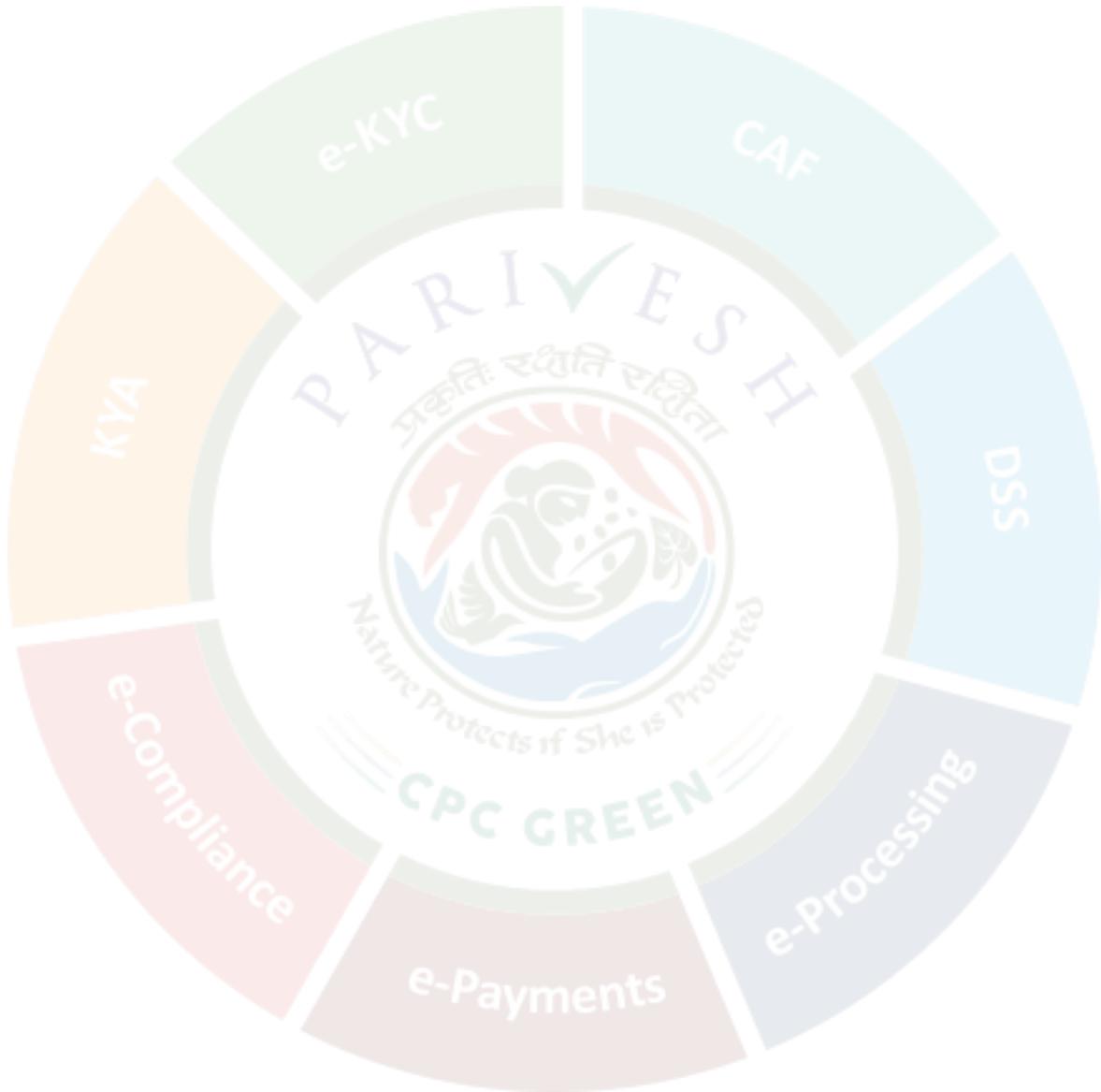


## Details of the proposal are as per the EIA/EMP report

S. No.	Particulars	Details		
a.	Terms of Reference for undertaking EIA study	15.12.2022		
b.	Period of baseline data collection	Post Monsoon Season (Oct., 2021 to Dec., 2021)		
c.	Date of Public Consultation	20 <sup>th</sup> March, 2023		
d.	Action plan to address the PH issues	An amount of Rs 19.76 Crs. have been earmarked for action plan. Detail of activities proposed attached as <b>Annexure IV</b> .		
e.	Location of the project	Village-Bhadana & Jindas, Teh-Nagaur, Dist-Nagaur, Rajasthan		
f.	Latitude and Longitude of the project site	<b>Point No.</b>	<b>Latitude</b>	<b>Longitude</b>
		1.	27°17'3.73"N	73°49'42.94"E
		2.	27°17'16.49"N	73°49'53.73"E
		3.	27°17'26.85"N	73°50'6.51"E
		4.	27°17'33.44"N	73°50'15.38"E
		5.	27°17'43.90"N	73°50'32.43"E
		6.	27°17'44.37"N	73°50'37.76"E
		7.	27°17'39.77"N	73°50'40.63"E
		8.	27°17'42.74"N	73°50'47.37"E
		9.	27°17'40.57"N	73°50'54.71"E
		10.	27°17'39.37"N	73°50'57.47"E
		11.	27°17'29.22"N	73°51'3.74"E
		12.	27°17'19.59"N	73°51'7.16"E
		13.	27°16'50.14"N	73°50'5.72"E
		14.	27°16'57.32"N	73°50'3.16"E
		15.	27°16'51.51"N	73°49'54.23"E
		16.	27°16'57.33"N	73°49'49.76"E
		17.	27°16'58.78"N	73°49'51.13"E
g.	Total land	The total area of project is 194.5560 ha. [Private Agriculture: (192.4838) & Government: (2.0722)].		
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	<ul style="list-style-type: none"> <li>• Out of 194.5560 ha; So far 132.3558 Ha (68%) of the land has been purchased, mutation done and the land is under the possession of JSW Cement. Purchase of remaining land as well as allotment of government land is under progress and same is expected to be completed by Oct'23. Land registration documents have been submitted alongwith the EIA report.</li> <li>• Online applications for Conversion of Land Use were submitted to State Revenue deptt. on 15-06-2023, 17-06-2023 and 24-07-2023. Subsequently, the district collector forwarded the applications to various deptts for verification and NOC.</li> <li>• So far, NOCs have been received from State Forest deptt and the Executive Engineer, Deptt. of Public Works. Grant of NOC from other departments is in progress and expected to be received by Sept' 23.</li> </ul>		

S. No.	Particulars	Details																														
		<ul style="list-style-type: none"> <li>PP has reported that they have received consents of the land owners for sale of their land to JSW Cement. Copy of the consent letter is submitted.</li> </ul>																														
i.	Existence of habitation & involvement of R&R, if any	<p><b>Plant Site:</b> 8 Families (1 family from Bhadana village &amp; 7 families from Jindas village).</p> <p><b>Study Area:</b> Villages falling near to the project site are as given below:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Hamlet with 4 families</td> <td>50 m</td> <td>NW</td> </tr> <tr> <td>Hamlet - Jindas ki Dhani</td> <td>~ 0.6 km</td> <td>NW</td> </tr> <tr> <td>Village Jindas</td> <td>~1.5 km</td> <td>NE</td> </tr> <tr> <td>Village Manjhwas</td> <td>~2.6 km</td> <td>North</td> </tr> <tr> <td>Village Bhadana</td> <td>~2.0 km</td> <td>SW</td> </tr> <tr> <td>Village Kishanpura</td> <td>~ 3.0 km</td> <td>East</td> </tr> </tbody> </table> <p>There are approx. 16 other villages in 10 km radius study area.</p>	Habitation	Distance (km)	Direction	Hamlet with 4 families	50 m	NW	Hamlet - Jindas ki Dhani	~ 0.6 km	NW	Village Jindas	~1.5 km	NE	Village Manjhwas	~2.6 km	North	Village Bhadana	~2.0 km	SW	Village Kishanpura	~ 3.0 km	East									
Habitation	Distance (km)	Direction																														
Hamlet with 4 families	50 m	NW																														
Hamlet - Jindas ki Dhani	~ 0.6 km	NW																														
Village Jindas	~1.5 km	NE																														
Village Manjhwas	~2.6 km	North																														
Village Bhadana	~2.0 km	SW																														
Village Kishanpura	~ 3.0 km	East																														
j.	Elevation of the project site	297 m to 304 m above mean sea level.																														
k.	Involvement of Forest land if any.	No Forest Land is involved in the Project site.																														
l.	Water body exists within the project site as well as study area	<p><b>Project site:</b> No water body exists within the Project site.</p> <p><b>Study area:</b> 9 water bodies are present within 10 km radius of Project site and all are seasonal.</p> <table border="1"> <thead> <tr> <th>Water bodies</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Jindas talab/Kuradi Naddi</td> <td>~0.4 km</td> <td>NNE</td> </tr> <tr> <td>Badi Naddi (Rajlai Naddi)/ Bhadana Talab</td> <td>~1.0 km</td> <td>SW</td> </tr> <tr> <td>Jakhli Nadi</td> <td>~1.5 km</td> <td>NW</td> </tr> <tr> <td>Bhora Bada</td> <td>~5.5 km</td> <td>WSW</td> </tr> <tr> <td>Janjolai Nadi</td> <td>~5.5 km</td> <td>NE</td> </tr> <tr> <td>Kharkahi Nadi</td> <td>~8.0 km</td> <td>NNW</td> </tr> <tr> <td>Chapar Nadi</td> <td>~9.5 km</td> <td>ESE</td> </tr> <tr> <td>Nosar Talab – Deh</td> <td>~5.4 km</td> <td>ENE</td> </tr> <tr> <td>Jathera Talab</td> <td>~6.2 km</td> <td>North</td> </tr> </tbody> </table>	Water bodies	Distance	Direction	Jindas talab/Kuradi Naddi	~0.4 km	NNE	Badi Naddi (Rajlai Naddi)/ Bhadana Talab	~1.0 km	SW	Jakhli Nadi	~1.5 km	NW	Bhora Bada	~5.5 km	WSW	Janjolai Nadi	~5.5 km	NE	Kharkahi Nadi	~8.0 km	NNW	Chapar Nadi	~9.5 km	ESE	Nosar Talab – Deh	~5.4 km	ENE	Jathera Talab	~6.2 km	North
Water bodies	Distance	Direction																														
Jindas talab/Kuradi Naddi	~0.4 km	NNE																														
Badi Naddi (Rajlai Naddi)/ Bhadana Talab	~1.0 km	SW																														
Jakhli Nadi	~1.5 km	NW																														
Bhora Bada	~5.5 km	WSW																														
Janjolai Nadi	~5.5 km	NE																														
Kharkahi Nadi	~8.0 km	NNW																														
Chapar Nadi	~9.5 km	ESE																														
Nosar Talab – Deh	~5.4 km	ENE																														
Jathera Talab	~6.2 km	North																														
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Nil																														
n.	Project cost	The capital cost of the proposed project is Rs. 4998.048 Crores.																														
o.	EMP cost	The capital cost for Environmental Protection Measures is proposed as Rs. 547.39 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 29.93 Crores/ annum.																														
p.	Employment opportunity	The employment generation from the project is 4110 persons.																														
q.	Water and Power requirement	The total water requirement for the proposed project is estimated as 4180 m <sup>3</sup> /day; out of which 3960 m <sup>3</sup> /day will be met from saline ground water after prior approval from																														

S. No.	Particulars	Details
		<p>competent authorities and 220 m<sup>3</sup>/day requirement will be met through treated waste water.</p> <p>Power requirement for the proposed project is estimated as 120 MW.</p>



## Unit configuration and capacity

S. No.	Plant Equipment / Facility	Proposed Unit	
		Configuration	Capacity
1.	Clinker*	Kiln - 3 X 12000 TPD	12.0 Million TPA
2.	Calcined Clay	Clay Calciner System 2 x 2300 TPD	1.5 Million TPA
3.	Cement (OPC/PPC/PSC/Composite Cement/LC3/PLC)	Cement Mill - 2 X 350TPH	5.0 Million TPA
4.	WHRB	3 PH boilers & 3 AQC boilers comprising of HP steam capacity of 3 x 72 TPH and LP 3 x 30.84 TPH. Turbine – 3 x 18 MW	54 MW
5.	DG Sets	-	6000 KVA (3 x 2000 KVA)
6.	Oxygen Plant	-	160 m <sup>3</sup> /hr
7.	AFR Pre - processing & Co - processing Facility	-	Part of the Project
8.	Railway Siding with Wagon Tippler	-	Part of the Project

\*Surplus Clinker will be dispatched to other grinding unit and market sale

## Specific and General EC conditions

### A. Specific Condition:

- i. 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.
- ii. 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.
- iii. 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.
- iv. The PP shall complete the acquisition of the proposed project land and conversion for industrial purpose prior to commencement of proposed project.
- v. 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.
- vi. PP shall implement the R&R plan for the habitations involved within the project area and also for purchase of private land.
- vii. 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.
- viii. 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 & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards habitations. As committed, the Company shall plant 75,000 nos of trees in this monsoon season, i.e. upto 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&CC.

- ix. 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 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.
- x. PP shall undertake village adoption programme, prepare and implement the action plan to develop them into model villages.
- xi. 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.
- xii. 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.
- xiii. 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.
- xiv. The recommendations of the approved Site-Specific Wildlife Management Plan 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.

## **B. General Conditions**

### **I. Statutory compliance:**

- i. 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.

### **II. Air quality monitoring and preservation**

- i. 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.
- ii. 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 plant area at an angle of 120° each), covering upwind and downwind directions.
- iii. 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.
  - iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
  - v. 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.
  - vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
  - vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
  - viii. 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.
  - ix. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
  - x. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
  - xi. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
  - xii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
  - xiii. 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, adsorbers, 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.
  - xiv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
  - xv. 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.
  - xvi. 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 Air monitoring equipment shall be installed.
  - xvii. 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.
- xviii. Provide Low NO<sub>x</sub> burners as primary measures and SCR /NSCR technologies as secondary measure to control NO<sub>x</sub> emissions.
- xix. The emission norms applicable for the cement plant shall be adhered to.
- xx. Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.
- xxi. DeSO<sub>x</sub> system shall be provided dry type. NO<sub>x</sub> level shall be maintained below 600 mg/Nm<sup>3</sup> by using best available technology.
- xxii. Petcoke dosing shall be controlled automatically to control SO<sub>2</sub> emission from chimney within the prescribed limits.
- xxiii. PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
- xxiv. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.

### **III. Water quality monitoring and preservation**

- i. 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 system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. 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.
- iii. 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.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. 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.
- vii. 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.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

#### **IV. Noise monitoring and prevention**

- i. 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.
- ii. 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.

#### **V. Energy Conservation measures**

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.
- iii. 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.
- iv. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.
- v. Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.
- vi. Waste heat recovery system shall be provided for kiln and cooler.

#### **VI. Waste management**

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. 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 <https://cpcb.nic.in/technical-guidelines-3/>. 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.
- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- vi. PP shall recycle/reuse solid waste generated in the plant as far as possible.

## **VII. Green Belt**

- i. 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.
- ii. 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.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

## **VIII. Public hearing and Human health issues**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. 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.
- iii. 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, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

## **IX. Environment Management**

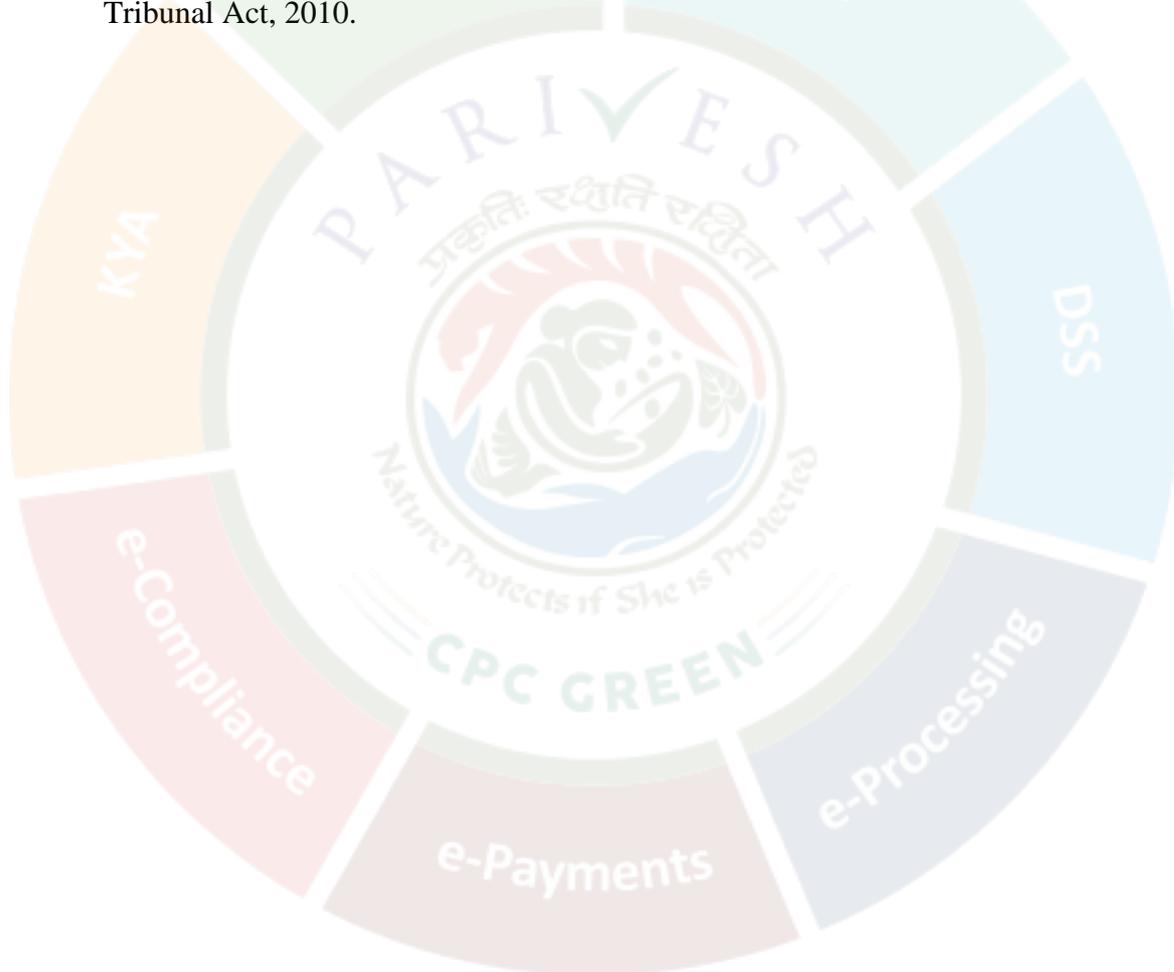
- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. 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 shareholders / 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.
- iii. 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.

- iv. 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.

**X. Miscellaneous**

- i. 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.
- ii. 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.
- iii. 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.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, 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.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. 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.
- vii. 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.
- viii. 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.
- ix. 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.
- x. 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.
- xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other 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.

- xii. 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).
- xiii. 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.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. 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.
- xvii. 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.



Action plan as per MoEF&CC O.M. F.No. 22-65/2017-IA.III, dated 30/09/2020:

Socio- economic Development Plan for Phase - I								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
<b>Livelihood related</b>	Establishing “Center of Excellence” having Skill Development School, Training Center of Women, Library for youths, Open Gym, Classrooms for extra studies, wellness center etc with 6 AC rooms near plant premises or nearest villages in separate land. Installation of 50 nos. of sewing machines, 20 nos. of computer systems, 30 nos. of machines for making hand craft items along with necessary raw	Near Plant Site village	200	Near Plant Site village	200	Near Plant Site village	200	600

Socio- economic Development Plan for Phase - I								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	materials, organizing training program, vocational program etc.							
	Establishment of Organic manure production and demonstration centre	2nos. (Village Bhadana & Malgao n)	6	2nos. (Village Harima & Jindas)	6	2nos. (Village Sarasani & Deh)	6	18
<b>Education Related</b>	Development of Mahatma Gandhi Vidhyalya and Tulchiram Gilda Government Secondary School, Bhadana to model school with comprehensive infrastructure support, innovative aids including activity-based materials for Math, Science & English as well as ICT facilities for improved teaching & learning	-	0	Bhadana	150	-	0	150
	Construction of indoor stadium for	-	0	-	0	Harima	140	140

Socio- economic Development Plan for Phase - I								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	indoor games such as badminton, chess, tennis etc.							
	Construction of Classrooms in Govt. Schools of nearby area (Total 25 Classrooms)	3 Schools / Bhadana & Sarasani, Harima Villages	75	4 Schools/ Jindas, Bhadana & Manjhw as Villages	100	4 Schools / Sadokan, Amarpu ra, Somna, Deh Villages	100	275
	construction of sub- Health centre with infrastructure support, if the govt. sanctions a sub-health centre at village Harima.	-	0	-	0	Village Harima	80	80
<b>Health Related</b>	Primary Medical Facilities through Mobile Van	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as, Malgoan	100	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as, Malgoan	100	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as, Malgoan	100	300
			35		42		49	126

Socio- economic Development Plan for Phase - I								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
<b>Environment Related</b>	Plantation drives with Tree guards along with plantation in temples and cremation grounds	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as, Malgoan		7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as, Malgoan		7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as, Malgoan		
	Plantation in forest area	In study area in consultation with DFO	30	In study area in consultation with DFO	30	In study area in consultation with DFO	30	90
<b>Water related</b>	Repairing and Renovation of existing water harvesting structures/ ponds/naadis etc. in the nearby villages	3 Ponds at Bhadana, Harima villages	45	5 Ponds of Deh, Khelota, Somnaad Bhadana Villages	75	5 Ponds at Bhadana, Sarasani, Jindas, Sadokan villages	75	195
	Drinking water arrangements for Cattle & Bird by developing troughs	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as,	7	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as,	7	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as,	7	21

Socio- economic Development Plan for Phase - I								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
		Malgoan		Malgoan		Malgoan		
	Developing/repairing of water infrastructures in the villages	2 Villages / Bhadana, Jindas	10	2 Village / Sarasani, Harima	10	-	-	20
<b>Infrastructure Related</b>	Installation of Solar Street Lights for better illumination in the villages	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as, Malgoan	70	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as, Malgoan	50	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhw as, Malgoan	50	170
	1 Km CC Road from Aam guwad to vijya vatika in village Surjaniyawas, Gram Panchayat Gagwana	-	0	-	0	Gagwana	40	40
	Sewage Treatment Plant	-	0	Bhadana Village	50	Bhadana Village	50	100
<b>Sports related</b>	Development of Playgrounds along with construction of boundary wall in the village & School	Bhadana village	50	Sarasani, Somna Villages	100	Amarpura village	50	200

Socio- economic Development Plan for Phase - I								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	grounds and their maintenance up to 3 years							
<b>Total</b>			<b>628</b>	<b>0</b>	<b>920</b>	<b>0</b>	<b>977</b>	<b>2525</b>

Socio- economic Development Plan for Phase - II								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
<b>Livelihood related</b>	Development of Livestock Development Centre	-	0	Village Jindas	20	-	0	20
<b>Education Related</b>	Renovation, Repairing & Painting of Govt. School Buildings	Bhadana & Sarasani, Harima Villages (2 school in each village)	60	Jindas, Bhadana & Manjhwas Villages (2 school in each village)	60	Sadokan, Amarpura, Somna, Deh Villages (2 school in each village)	80	200
	Providing basic amenities like	All Govt. schools of	150	All Govt. Schools of village Jindas,	150	All Govt. Schools of Sadokan,	200	500

Socio- economic Development Plan for Phase - II								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	Furniture, Green Boards, water coolers etc.	village Bhadana & Sarasani, Harima		Pithasiya & Manjhwars		Amarpura, Somna, Deh		
	Plantation Works in Govt. School Premises	All Schools of Project area	10	All Schools of Project area	10	All Schools of Project area	10	30
<b>Health Related</b>	Organising Medical camps for specialised diseases	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhwars, Malgoan	100	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhwars, Malgoan	100	7 Villages / Bhadana, Sarasani, Harima, Jindas, Deh, Manjhwars, Malgoan	100	300
<b>Environment Related</b>	Construction of 10 nos. of check dams along nallahs	In study area in consultation with DFO	15	In study area in consultation with DFO	15	In study area in consultation with DFO	15	45
	Construction of 10 nos. of artificial water	3 nos in study area in consultation	120	3 nos in study area in consultation	120	4 nos in study area in consultation	160	400

Socio- economic Development Plan for Phase - II								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	bodies (100x100x2) inside the adjacent forest patches	with DFO		on with DFO		on with DFO		
<b>Water related</b>	Providing support for Construction of Individual Tanka (Rain Water Harvesting Structures)	Village Bhadana & Jindas	10	Village Sarasani & Harima	10	Village Deh & Malgaon	10	30
	Construction of Drainage system in the villages	Bhadana Village	50	Bhadana and Sarasani village	50	Bhadana village	50	150
<b>Infrastructure related</b>	Construction of 5 Km CC Road with asphaltting connecting Nimbi Jodhan-Nagaur Road	-	0	Village Harima	200	-	0	200

Socio- economic Development Plan for Phase - II								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	Construction of Community Centers for Local community event, SHG meeting, organising functions etc.	3 Community Halls at Bhadana, Jindas, Harima villages	180	3 Community Halls at Sarasani, Bhadana, Malgaon villages	180	4 Community Halls at Sadokan, Bhadana, Surjaniyawa, Jindas villages	240	600
<i>Sports related</i>	Basketball Ground Development at Bhadana village/School	-	0	Bhadana Village	24	-	0	24
<b>Total</b>			<b>695</b>	<b>0</b>	<b>939</b>	<b>0</b>	<b>865</b>	<b>2499</b>

Socio- economic Development Plan for Phase - III								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
<b>Livelihood related</b>	Establishment of Farmer Training cum demonstration Centre at Bhadana	Bhadana Village	20	-	-	-	0	20
<b>Education Related</b>	Ensuring proper Sanitation Facilities at School by building Toilet units separate for boys & girls	Sadokan, Amarpur a, Somna, Deh Villages (2 schools in each village)	32	Bhadana & Sarasani, Harima Villages (2 schools in each village)	24	Jindas, Bhadana & Manjhwas Villages (2 schools in each village)	24	80
	Developing Smart Classrooms in the Govt. Schools to promote digital learning	Bhadana & Sarasani, Harima Villages (2 schools in each village)	60	Jindas, Bhadana & Manjhwas Villages (2 schools in each village)	60	Sadokan, Amarpur a, Somna, Deh Villages (2 schools in each village)	80	200
	Boundary wall construction of Govt. Schools	2 Villages of nearby plant site	20	1 Village / Kripa ki Dhani	10	1 Village / Amarpur a	10	40
<b>Health Related</b>	Infrastructure Improvement in Health Sub-Centers	2 Villages / Bhadana, Sarasani	10	2 Villages / Bhadana, Sarasani	10	1 Village / Sadokan	5	25
	Development of facilities at Deh PHC	1 Village / Deh	30	1 Village / Deh	30	1 Village / Deh	30	90
<b>Environment Related</b>	3 nos. of Anti-poaching barracks for forest surveillance	In study area in consultation with DFO	0	In study area in consultation with DFO	15	In study area in consultation with DFO	30	45
	Development of Garden/Parks in the villages	2 Villages	5	2 Villages	7	2 Villages	9	21
<b>Water related</b>	Construction of Drinking Water Facility (Pyau)	Hariram Baba Temple, Bhadana	5	-	0	-	0	5
	Laying of water pipeline in the village in joint collaboration with gram panchayat.	-	0	Odho ki Dhaniya	20	-	0	20

Socio- economic Development Plan for Phase - III								
Concerns raised during the Public Hearing	Physical activity to be done	Unit of Measurement						Tentative Budget (Rs. in lacs)
		1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		
		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
<b>Infrastructure Related</b>	Construction/repairing of village Roads	Village Sarasani	500	Village Sadokan	500	-	0	1000
	Providing busses along with Construction of Bus Stop	Village Bhadana & Malgaon	90	Deh, Jindas	90	Village Harima & Sarasani	90	270
	Development at Cremation Ground along with construction of boundary wall	Sarasani village	20	Surjaniya was village	20	-	0	40
	Installation of Speed Breakers to ensure road safety	5 Villages of nearby area	1	5 Villages of nearby area	1	-	0	2
	Construction of Public Toilets at community places	Village Bhadana, Malgaon & Amarpur a	6	Village Pithasiya, Sadokan & Sarasani	6	Village Deh, Jindas & Manjwas	6	18
	Development of Gaushala of nearby villages with construction of tin shed for storage of fodder, covered shed for cows, drinking water arrangements & electricity facilities and their maintenance up to 3 years	Bhadana village	50	Sarasani Village	50	-	0	100
<b>Total</b>			<b>849</b>	<b>0</b>	<b>843</b>	<b>0</b>	<b>284</b>	<b>1976</b>