

F. No. J-11011/472/2010-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
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Dated: 11th September, 2015

To

M/s Rajputana Properties Pvt. Ltd.
(Subsidiary of M/s Dalmia Cement Ventures Ltd.),
Hansalaya, 11th Floor, 15, Barakhamba Road
New Delhi-110001

Email: Nil Fax No.- Nil, Ph. No-(011-23310121)

Subject: Integrated Cement Plant of 5 MTPA (2x2.5 MTPA) Capacity with captive Power Plant of 54 MW (2x27MW) of 701.268ha of M/s Rajputana Properties Pvt. Ltd (a subsidiary of M/s Dalmia Cement Ventures Ltd.) located at village Mangrol, Taluka Nimbahera, Dist. Chhittorgarh, Rajasthan – Environmental Clearance Regarding.

Sir,

This has reference to your letter no. 'nil' dated 31st July 2013 along with copies of EIA/EMP report seeking environment clearance under the provisions of the EIA Notification, 2006 and subsequent letters submitting additional information regarding project mentioned above. The TOR for the project was granted on 16.11.2010. The extension of validity of TOR was thereafter accorded on 22.03.2013. Subsequently an amendment to TOR was issued on 24.12.2013. The baseline data for preparation of report was collected from April-June 2010 and revalidation of the environmental data was done by collection of one-season baseline data during winter season of 2013-14 (December-February 2014).

2.0 The proposal is for setting up of a Integrated Cement Plant of 5 MTPA capacity (2x2.5 MTPA) with a 54MW (2x27MW) Captive Power Plant. The project is linked to the proposed limestone mine of 701.268ha, which is proposed as captive limestone mine to the Cement Project. It was informed that Clinker line of 10,000 TPD (2x2500TPD) is for a total capacity of 3.3 MTPA. The total area of the plant and colony is 170ha, which is non-forestland (revenue land). There are no National Parks, WL Sanctuaries, Biosphere Reserves, etc within the 10km study area. There are a few patches of RF and the nearest RF is Galundia Block (6.08km). There are a few Schedule-I fauna for which a Conservation Plan approved by Addl. PPCF (WL), Govt. of Rajasthan. An amount of Rs.

1.63 crores has been earmarked for the conservation plan. NH-79, which is about a km distance from the proposed plant will be used for transportation of major raw materials. Approach road to NH-79 will be constructed by the PP. Avenue plantation will be developed along the approach roads and roads within the plant. A total of 56.1 ha of the plant area will be developed as green belt. Selection of species and green belt development will be as per CPCB Guidelines. The capital cost of the project is Rs 2143 crores. An amount of Rs 40 crores is earmarked for CSR activities over a period of 10 years and Rs 79 crores towards EMP as capital costs and Rs 6.25 crores as recurring costs. CSR will broadly cover the areas of education, healthcare, livelihood issues and environment and infrastructure. Around 639 personal will be required for operation of the proposed project including cement plant, CPP and mines.

3.0 Raw materials will be obtained as per details given below:

Material	Source	Distance from Plant (km)	Remarks
Limestone	Captive	1-2	Transport by dumper
Mill scale/iron ore	Indore, Ratlam, and Gwalior	190 to 545	By road
Laterite	Chittorgarh	60	By road
Red Ochre	Chittorgarh	30	By road
Gypsum	Nagaur/Bikaner	350 to 550	RSMML/FAGMIL
Flyash	Kota/Baran,Banswara, Kawai	175-275	By road
Fuel-Coal	SECL/WCL Coalfields Import from South Africa	815	By Rail
Petcoke	Jamnagar, Gujarat	700	By rail

4.0 The total water requirement for the Integrated Cement Project is 4000m³/d which includes 3000m³/d for the plant, 350m³/d is for drinking and sanitation, 550m³/d for CPP (air cooled) and 100m³/d for the mine. It is proposed to meet the water demand from groundwater. Application for seeking permission for usage of groundwater has been submitted to State Ground Water Authority on 19.10.2012, which is under process. An alternate option is for intake of water from Gambhiri Dam at a distance of 4.5km. It was clarified that no water will be drawn from River Lilagar as per Ministry's amendment of TOR dated 24.12.2013. Provision of rainwater harvesting structures for a total capacity of 22,55,409m³/annum and use of rainwater stored in mined out pits will also augment the water requirements. The Cement Plant-cum-CPP will operate on a zero-discharge basis.

5.0 Treated water from ETP and STP will be reused in greenbelt development, dust suppression, etc. ESP and Baghouse will be installed in all the major polluting units/Transfer points such as Raw Mill/kiln, Coal Mill, Cement Mill, Limestone Weigh Feeder, Raw Material storage silo, Stockpile, Raw coal hopper, Clinker Silo, clinker hopper, Cement silo, in the Cement Plant. ESP will be installed in Cooler, Boiler, and CPP. Raw material will be stored in silos. About 33% of the total area will be developed as greenbelt.

6.0 The Public Hearing for the project was held on 31.10.2012 at Rajeev Gandhi Seva Kendra, Mangrol Tehsil, Nimbahera under the Chairmanship of Shri. N. K. Kothari, Additional District Collector, Chittaurgarh. The main issues raised in Public Hearing covered the issues of employment and livelihood, environmental pollution, infrastructure development, sanitation, animal husbandry and land acquisition. The matter was considered during 22nd EAC meeting held on 28th-29th August, 2014 and during 31st EAC meeting held on 8th - 9th January, 2015. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions.

7.0 The Ministry of Environment, Forest and Climate Change on the basis of the recommendations of the Expert appraisal Committee considered the project and hereby decided to accord environmental clearance to the above mentioned project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following Specific and general conditions:

A. SPECIFIC CONDITION:

- i. The project proponent shall comply with the new MOEFCC Standards issued vide GSR 612 (E) dated 25.08.2014 with respect to particulate matter, SO₂, NO_x for Cement sector.
- ii. Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks shall be provided. After expansion, limit of PM shall be controlled to meet prescribed standards by installing adequate air pollution control system. Electrostatic precipitators to clinker cooler, bag house to raw mill/kiln and bag filters to coal mill and cement mill. Low NO_x burners shall be provided to control NO_x emissions. Regular calibration of the instruments must be ensured.
- iii. All the pollution control devices/equipment in raw mill/kiln, kiln feeding system, clinker cooler, coal mill, cement mill, and cement silos, shall be interlocked so that in the event of the pollution control devices/systems not working, the respective unit(s) shut down automatically.
- iv. Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB) and a feasibility report shall be prepared and submitted to the Ministry and its Regional Office within 3 months from the date of issue of the letter.
- v. Efforts shall be made to achieve power consumption of 70 units/tonne for Portland Pozzolona Cement (PPC) and 95 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.



- vi. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- vii. AAQ Modelling shall be carried out based on proposed expansion based on the specific mitigative measures proposed for the expansion project and mitigative measures taken to keep the emissions well below the standards.
- viii. Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines/Code of Practice issued by the CPCB in this regard shall be followed.
- ix. Arsenic and Mercury shall be monitored in emissions, ambient air and water.
- x. The coal yard shall be lined and covered.
- xi. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by use of conveyors/rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.
- xii. Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater shall be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted.
- xiii. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.
- xiv. Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office, SPCB and CPCB.
- xv. All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers / reprocessors only.
- xvi. The proponent shall implement a Plan for 100% utilisation the fly ash from Power Plants in the Cement Plant. All the fly ash shall be utilized as per Fly ash Notification, 1999 subsequently amended in 2003 and 2008. Efforts shall be made to use fly ash maximum in making Pozzolona Portland Cement (PPC).

- xvii. The proposed cement plant kiln shall be provided with a flexible fuel feeding system to enable use of hazardous wastes such as oil sludge, cut tyres, etc and other wastes including biomass, etc.
- xviii. The proponent shall examine and prepare a plan for utilisation of high calorific wastes such as chemical wastes, distillation residues, refuse derived fuels, etc as alternate fuels based on availability and composition. For this, the proponent shall identify suitable industries with such wastes and enter into an MOU for long-term utilisation of such wastes as per the E(P) A Rules, 1986 and with necessary approvals.
- xix. Efforts shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly. The PP shall enter into an MOU with units with potential for generating HW. And in accordance with HW Regulations and prior approval of the MPPCB.
- xx. As proposed, green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xxi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.
- xxii. All the commitments made to the public during the Public Hearing / Public Consultation meeting shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office.
- xxiii. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.
- xxiv. The proponent shall prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the


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Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.

- xxv. A Risk Assessment Study and Disaster Preparedness and Management Plan along with the mitigation measures shall be prepared with a focus of Disaster Prevention and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.
- xxvi. To educate the workers, all the work places where dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.
- xxvii. 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, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Rajasthan Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, PM_{2.5}, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office and the SPCB/CPCB once in six months.
- iv. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the MoEF&CC as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry. The funds so provided shall not be diverted for any other purpose.
- x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- xi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF&CC. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF&CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF&CC by e-mail. 

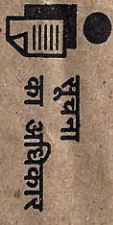
- xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the MoEF&CC at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office.
- xv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
8. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
9. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
10. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Dr. S.C. Garkoti)
Director
11/09/2015

Copy to:-

1. The Secretary, Department of Environment, Govt. of Rajasthan.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Rajasthan Pollution Control Board 4, Jhalana Institutional Area, Jhalana Doongri, Jaipur, Rajasthan 302004.
4. The Additional Principal Chief Conservator of Forests (C) Ministry of Environment, Forest and Climate Change, Regional Office (CZ) Kendriya Bhawan, 5th Floor, Sector "H" Aliganj, Lucknow-226020 (Uttar Pradesh)
5. Guard File / Record File/Monitoring file.


(Dr. S.C. Garkoti)
Director



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भारत सरकार सेवार्थ
ON INDIA GOVERNMENT SERVICE Mr. Bharat Bhawan

J-11011/472/2010-IA-II (1)

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To
M/s. Rajasthan Properties Pvt Ltd.
(subsidiary of M/s. Dalmeida Cement Ventures
Ltd.) Havelbaga, 11th Floor, 15, Barabakhamb
Road, New Delhi

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
शंकरा पर्यावरण भवन, जोर बाग रोड, अलिगंज, नई दिल्ली - 110003
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