

o/c

UDAIPUR CEMENT WORKS LIMITED

Regd. Office & Works: Shripatinagar, P.O. C.F.A.-313021, Near Dabok, Dist. Udaipur (Raj.) Telefax: 0294-2655077
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CIN : L26943RJ1993PLC007267

UCWL/ENV/Cement/EC/ 187

Date: 18/05/2018

To,
The Ministry of Environment & Forests,
Regional Office (Central Region),
Kendriya Bhawan, 5th Floor, Sector "H", Aliganj,
LUCKNOW – 226024 (UP)

Sub: Submission of six monthly compliance report of conditions of Environmental Clearance by M/s Udaipur Cement Works Ltd situated at Village- Shripatinagar, Tehsil- Mavli, Distt. Udaipur(Raj.)

**Ref: 1. Udaipur Cement Works Limited (UCWL) Environmental Clearance F. No.: J-11011/807/2007-IA.II (I) dated 09/01/2008 &
2. Extension of validity of Environmental Clearance upto 07/10/2018 vide ministry's letter no.:J-1011/807/2007-IA(I) dated 30th December, 2013.**

Dear Sir,

With reference to above Environmental Clearance letter, We are submitting herewith with six monthly compliance report for the period of **October, 2017 to March, 2018** as per annexure-I.

We hope you will find the above in order.

Thanking you,

Yours faithfully
For Udaipur Cement Works Ltd.

For Udaipur Cement Works Ltd.


P. K. Chauhan
(General Manager - QC)

Encl: As above

- Cc to:-
1. The Director (Industry),
Ministry of Environment & Forests,
Indira Paryavaran Bhawan. Jor Bagh,
New Delhi-110003
 2. The In-Charge (Zonal Office),
Central Pollution Control Board (CPCB),
3rd Floor, Sahkar Bhawan,
North T.T. Nagar, Bhopal-462003(M.P.)
 3. The Member Secretary, RSPCB – Jaipur
 4. Regional Officer, RSPCB - Udaipur

Environmental Clearance Letter No.: J-11011/807/2007-IA II (I), Dated 09/01/2008

Extension of validity of Environmental Clearance vide Ministry's letter no.:

J-1011/807/2007-IA(I) dated 30th December, 2013.

Specific Conditions:

S/N	Conditions	Compliance
1	Continuous on-line stack monitoring facilities for all the stacks and adequate air pollution control systems shall be provided to keep emissions levels below 50 mg/Nm ³ by installing adequate air pollution control system. On-line monitoring data shall be submitted to the Regional Office of the Ministry at Lucknow, RSPCB and CPCB regularly.	Noted, UCWL had provided opacity meter for online stack monitoring of particulate emission from Cement Mill, Coal Mill, Cooler and Kiln/VRM. All the opacity meters are connected with CPCB & RPCB server and monitoring data are continuously uplinked to these servers. UCWL has installed pollution control measures before all major stacks i.e. Reverse Air Bag House(RABH) for Raw mill & kiln, Bag house for coal mill, ESP for cooler, Pulse Jet Bag Filters for cement mill to ensure the PM emission within norms. Bag filters have been installed at all material transfer points.
2	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at material transfer points by concerning/asphalting the roads, providing atomized water spray system with reclaimers, covered stock pile for clinker storage and gypsum, storage of fly ash in silo, water sprinkling at limestone and coal handling area. Storage of other raw materials shall be in closed roof sheds. Covered conveyor belts shall be used to reduce fugitive emissions.	Adequate bag filters have been provided to control fugitive dust emissions from various dust generating sections. UCWL ensures that raw materials are being stored in closed roof sheds. Covered conveyor belts have been installed to control fugitive emissions. Installation of atomized water spray system at desired location is in process.
3	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by CPCB in this regard shall be followed.	Guidelines / Code of Practice for fugitive emissions control issued by CPCB are being followed by UCWL to control secondary fugitive emissions.
4	Total water requirement from mine pit and bore well shall not exceed 2850 m ³ /day and prior permission from the State Ground Water Board/Central Ground Water Authority shall be obtained. All the treated waste water shall be recycled and reused in the process and other plant related activities i.e. cooling etc. Domestic effluent shall be treated in Sewage Treatment Plant (STP) and used for green belt development and dust suppression. 'Zero' discharge shall be strictly adopted and no effluent from the process shall be discharged outside the premises.	Udaipur Cement Works Ltd. (UCWL) had obtained NOC for ground water withdrawal vide letter no. 21-4(211)/WR/CGWA/2007-21 dated July 04, 2008 which is renewed from CGWA vide letter no.21-4(211)/WR/CGWA/ 2007-626 dated 22/04/2016. UCWL assure that total fresh water requirement shall not be exceeded from 2850 m ³ /day. Machinery cooling water from various sections of plant is being recycled and reused in the process for cooling. Domestic effluent is being treated in Sewage Treatment Plant (STP) and treated water is being used for green belt development.

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5	'Permission' for withdrawal of 2850 m ³ /day from bore wells shall be obtained from SGWB / CGWA / concerned Department.	Udaipur Cement Works Ltd. (UCWL) had obtained NOC for ground water withdrawals vide letter no. 21-4(211)/WR/CGWA/2007-21 dated July 04, 2008 which is renewed from CGWA vide letter no.21-4(211)/WR/CGWA/ 2007-626 dated 22/04/2016.
6	Efforts shall be made to collect maximum fly ash from nearby Thermal Power Plants and use in the cement manufacturing. Fly ash shall be stored in ash silo. All the fly ash and dust generated from air pollution control equipments shall be properly recycled and re utilized in the cement plant itself. STP sludge shall be used as manure for green belt development within the premises. Used oil shall be sold to the authorized recyclers / re-processors.	Fly ash is being sourced from nearby Thermal Power Plants for cement (PPC) manufacturing. Dry fly ash is transported through closed tankers and stored in fly ash silo which is equipped with bag filters. Dust generated/collected by air pollution control equipments are being properly recycled and reused in the cement plant itself. Sludge generated from STP is used for green belt development. Used oil is sold to authorize recyclers only.
7	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.	UCWL ensures that raw materials and finished products shall be transported through fully covered trucks/triplers. Internal transport roads have been paved to control fugitive emissions during vehicular movements. Greenbelt has been developed along the roads.
8	High calorific hazardous waste shall be used as fuel in the cement kiln. Accordingly, provision shall be made in the kiln.	Low Nox burner (make Fives FCB) with provision of alternative fuels & Petcoke has been installed. Installation of AFR system is in progress.
9	As proposed green belt shall be developed in 53.41 ha. (33%) out of total 161.87 ha. land within and around the project site as per the CPCB guidelines in consultation with local DFO.	Noted, Greenbelt development is our ongoing process. At present approx. 55 ha. (33.98 %) area is covered under green belt out of total 161.87 ha of plant & colony area. The survival rate is approx. 60%.
10	'Permission' and recommendation of the State Forest Department regarding impact of proposed plant on surrounding reserve forests viz. Kantia P.F. (7 km SW), Panwari R.F. (9 km, SSW), Bara Mangra R.F. (9 km, SW), Nahar Mangra R.F. (2 km, ENE) shall be obtained and implemented.	Application for 'Permission' and recommendation has been submitted to State Forest Department regarding impact of proposed plant on surrounding reserve forests.

General conditions:

1	The project authority shall adhere to the stipulations made by Rajasthan State Pollution Control Board (RSPCB) and State Government.	Stipulations made by Rajasthan State Pollution Control Board (RSPCB) and State Government are being followed by UCWL.
2	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	UCWL ensures that no further expansion or modification of the plant will be carried out without prior approval of the Ministry.
3	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the RSPCB. At no time, particulate emissions from the cement plant including kiln, coal mill, cement mill, cooler shall be exceeded	Particulate matter emissions from various sections of Plant are well within the norms. UCWL has provided interlocking facility in the pollution control equipment so that in the event of the pollution control equipment not working, the

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	beyond the permissible limit. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	respective unit (s) is shut down automatically. UCWL has installed all the pollution control measure to keep the particulate emission within the prescribed norms.																								
4	Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State Authorities. At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the RSPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Lucknow, RSPCB and CPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated time to time.	<p>Ambient air quality including ambient noise levels and stack emission level are within the prescribed limit. UCWL had provided opacity meter for online stack monitoring of particulate emission from various stacks and connected them to CPCB as well as RPCB server.</p> <p>Stack emission (mg/Nm³) (Oct. 17 to March 18)</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Max.</th> <th>Min.</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>Kiln/Raw Mill VRM</td> <td>13.55</td> <td>8.27</td> <td>11.13</td> </tr> <tr> <td>Clinker Cooler</td> <td>16.46</td> <td>5.79</td> <td>10.33</td> </tr> <tr> <td>Coal Mill</td> <td>18.95</td> <td>13.08</td> <td>15.26</td> </tr> <tr> <td>Cement Mill – 1</td> <td>11.66</td> <td>6.55</td> <td>8.80</td> </tr> <tr> <td>Cement Mill – 2</td> <td>14.23</td> <td>7.39</td> <td>9.81</td> </tr> </tbody> </table>	Location	Max.	Min.	Average	Kiln/Raw Mill VRM	13.55	8.27	11.13	Clinker Cooler	16.46	5.79	10.33	Coal Mill	18.95	13.08	15.26	Cement Mill – 1	11.66	6.55	8.80	Cement Mill – 2	14.23	7.39	9.81
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Ambient Air Quality Data (Oct. 17 to March 18)																										
Ambient Air Quality Stations	PM – 10 (µg/m ³)			PM – 2.5 (µg/m ³)			SO _x (µg/m ³)			NO _x (µg/m ³)																
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.														
Near Packing Plant	66.67	48.47	58.91	37.64	17.79	26.00	9.63	5.90	7.00	14.62	7.44	10.05														
Near Loco Shed	68.68	45.83	57.21	34.68	17.25	26.10	8.12	5.87	6.94	14.67	7.19	10.09														
Near ADM Building	59.81	35.44	49.30	32.82	18.07	24.10	8.25	5.21	6.89	13.55	7.12	9.98														
Near Guest House	55.22	37.50	46.70	34.10	17.26	22.73	7.43	5.09	6.23	11.35	6.29	7.96														
5	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	Machinery cooling water is being recycled and reused in the process for cooling.																								
6	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 shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1998 viz. 75 dBA (day time) and 70 dBA (night time).	Noise control measures have been adopted to kept overall noise levels in and around the plant area well within the standards. Ambient noise is within the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1998 viz. 75 dBA (day time) and 70 dBA (night time). Noise level data are given as follows-																								

Ambient noise level in dB(A) (Oct. 17 to March 18)

Location	Observed Value (average)	
	(Day Time)	(Night Time)
Near Packing Plant	67.05	62.65
Near Loco Shed	65.45	61.22
Near Adm Building	51.97	46.35
Near Guest House	52.20	44.70

7	Proper housekeeping and adequate occupational health programmes shall be taken up. Occupational Health Surveillance programme shall be done on a regular basis and function and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	Good housekeeping is being practiced inside the plant premises. Appropriate PPEs and preventive measures are being used and practiced to avoid direct exposure to dust and noise. Health checkup is conducted on regular basis.
8	The company shall harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	UCWL has constructed contour trenches, earthen check dams, recharge pits etc. to harvest the rainwater from the roof tops, open areas and storm drains to recharge the ground water.
9	The company shall undertake Eco-development measures including community welfare measures in the project area.	UCWL has taken Eco-development measures including community welfare measures in the project area viz. tree plantation, supply of water to villagers, Medical center for colony residential as well as nearby villagers etc.
10	All the recommendations of the Corporate Responsibility for Environment Protection (CREP) for cement plants shall be strictly followed.	Recommendations of the Corporate Responsibility for Environment Protection (CREP) for cement plants are being followed & complied.
11	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP.	UCWL is complying with all environmental protection measures and safeguards recommended in the EIA/EMP as per the details given below- ~ Installation of pollution control measures before all major stacks i.e. Reverse Air Bag House (RABH) for Raw mill & kiln, Bag house for coal mill, ESP for cooler, Pulse Jet Bag Filters for cement mill to ensure the PM emission within norms. ~ Installation of bagfilters at all material transfer points. ~ Covered storage for raw materials i.e. Clinker, Gypsum, Fly ash etc. ~ Covered conveyer belts to arrest fugitive dust. ~ Water spraying on haul roads. ~ Paved/cemented roads for trasporation of vehichles.

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		<ul style="list-style-type: none"> ~Covered vehicles used for transportation of raw materials. ~Treatment of domestic waste water in Sewage Treatment Plant (STP) and reuse of treated water in plantation and water spraying on haul roads. ~Construction of artificial rainwater harvesting structures in plant, colony and mines area. ~Recycling of cooling water and leakage prevention by proper maintenance of the water supply system. ~ Installation of water meters for metering and monitoring of water receipt and consumption ~Regular monitoring of noise level and corrective measures in concerned machinery accordingly. ~Incorporating sound-proof enclosures for equipment and providing earmuffs and earplugs for operators working close to high noise generating sources. ~Green belt development in plant and colony area. ~Supply of Occupational Health Safety (OHS) gears like safety helmets, safety shoes and dust masks etc. to workers. ~Maintaining good housekeeping in plant and colony area ~Environmental Monitoring(Ambient air quality, water & wastewater quality, Noise level etc.) to check and control pollution as per the norms of regulatory agencies CPCB/SPCB/MoEF etc.
12	A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.	UCWL has separate Environment Management Cell to take care of monitoring and other issues related to environment under the control of Sr. Vice President (P&QC) and Sr. Vice President (Works).
13	As mentioned in the EIA/EMP Rs. 43.05 and Rs. 3.50 Crores earmarked towards the capital cost and recurring cost/annum for environmental pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry. The funds so provided shall not be diverted for any other purpose.	UCWL has kept the funds earmarked for environmental protection measures & which is being used exclusively to implement the conditions stipulated by MoEF as well as State Govt. This fund shall not be diverted for other purposes.
14	The Regional Office of this Ministry at Lucknow / CPCB / RSPCB shall monitor the stipulated conditions. A six monthly compliance report and	Noted, Half yearly compliance report is regularly being submitted to the concerned authority.

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	the monitored data along with statistical interpretation shall be submitted to them regularly.	
15	The 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.	Noted, all the project work is within the existing premises of UCWL, no additional land is proposed.
16	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 Rajasthan State Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environmental and Forests at http://envfor.nic.in . This should 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 locally concerned and copy of the same shall be forwarded to the Regional Office at Lucknow.	Noted, UCWL had informed the public through advertisement in two local newspapers and the same was submitted to concern authority.

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