

HCIL:VP:2017: - 148*R. Kumar
11/05/17**क्षेत्रीय कार्यालय
उत्प्रम प्रदूषण नियंत्रण बोर्ड
झाँसी*

The Member Secretary
U P Pollution Control Board
TC-12 V, Vibhuti Khand
Gomti Nagar
Lucknow (UP)

Diamond Cement
(Prop: HeidelbergCement India Limited)
CIN: L26942HR1958FL042301

Village : Madora, P.O :Baratha Kalan,
District : Jhansi, U.P - 284 121, India
Phone +91-510-2750548, 49
Fax +91-510-2750544
Website: www.mycemco.com

8.5.2017

Dear Sir,

Sub: Amended Environmental Clearance No.643/praya/SEAC/136/2011/AD(H) dated 28.3.2012 for Expansion of 0.8 MTPA to 2.7 MTPA Cement Grinding Capacity of Diamond Cement (Prop:HeidelbergCement India Ltd) at Madora, Distt. Jhansi, U.P.

We are enclosing herewith the latest point-wise compliance report for Amended Environmental Clearance for the expansion of our Cement Grinding capacity at Diamond Cement (Prop: HeidelbergCement India Ltd) at Madora, District: Jhansi (UP).

Thanking you,

Yours faithfully
For Diamond Cement
(Prop: HeidelbergCement India Ltd)

(Signature)
Sanjeev Gupta
Vice President

Encl: As above

- cc: The Secretary, Environment, U.P. Govt., Lucknow
123, Babu Bhawan, Secretariat, Vidhan Sabha Marg, Lucknow (UP)
- cc: Dr.P.L. Ahuja Rai, Director, IA Division, Ministry of Environment & Forests,
Govt. of India, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi
- cc: Chief Conservator, Ministry of Environment & Forests, Regional Office
(Central Region), Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow
- cc: District Magistrate, Jhansi (U.P). *(Signature)*
- cc: Regional Office, Central Pollution Control Board, PICUP Bhawan, Vibhuti Khand
Gomti Nagar, Lucknow - 226010 (U.P.)
- cc: Regional Officer, UP Pollution Control Board, UP Avs Vikas Parishad, Talpura Yojna,
Kanpur Road, Jhansi (UP).

o/l

Point wise Compliance Status/Action Plan for the conditions stipulated in the Amended Environmental Clearance Letter issued by the SEIAA, Uttar Pradesh for the Proposed Cement Grinding Capacity Expansion at Jhansi

Ref.: Amended Environmental Clearance letter No.643/praya/SEAC/136/2011/AD(H) dated 28.03.2012 granted from Directorate of Environment U.P. State Level Environment Impact Assessment Authority U.P.

Status Report as on 8.5.2017

Specific and General Conditions

Sr. No.	Condition	Compliance Status/Action Plan	Latest status
1.	Air borne dust at all transfer points will be extracted through dust extraction system to the bag filters. All the belt conveyors will be covered and it will be connected to Bag Filter to control the particulate emissions. The vents of the hoppers will be connected to dust extraction system. All the air slides will be closed type and will be connected to Bag Filter. The bucket elevator and vents of silo will be connected to Bag Filter. The packing machine will be equipped with dust extraction arrangement. The dust will be captured in bag filters. The internal roads will be black topped. Manual sweeping/vacuum sweeping will be carried out regularly followed by water sprinkling.	We have installed Bag Filters at all transfer points i.e. Material Transfer Points, Cement Mill Section, Cement Silo, Vents of Hoppers, Bucket Elevator, Silo, etc. All Bag Filters are connected to Packing Machines. Roads have been concreted / black topped. Manual sweeping followed by water sprinkling is being carried out in and around the plant premises regularly.	We have installed Bag Filters at all transfer points i.e. Material Transfer Points, Cement Mill Section, Cement Silo, Vents of Hoppers, Bucket Elevator, Silo, etc. All Bag Filters are connected to Packing Machines. Roads have been concreted / black topped. Manual sweeping as well as through Sweeping Machines is being carried out on continuous basis.

2.	<p>Water requirement of 200m³/day will be met from the ground water source. There will be no waste water generation from the process. Cooling water will be completely recycled. Cooling water contaminated with oil and grease from cooling of motors and pumps will be treated in Oil & Grease Trap followed by Settling Tank and will be re-used for dust-suppression. Soft water regeneration effluent will be treated in settling tank and re-used for dust suppression. The unit will adopt zero discharge concepts. Domestic effluent will be treated in STP and treated effluent from STP will be used for green belt.</p>	<p>There will be no waste water generation from the process. Industrial water for external cooling is being re-circulated after cooling. All Motors and Pumps are totally enclosed fan cooled type.</p> <p>The STP has been installed and the domestic effluent is being treated. The entire treated effluent from STP is being used for green belt.</p>	<p>This process is continuing on regular basis.</p>
3.	<p>There will be no process waste generated from the cement plant. All the dust (22,000 TPA) generated from APC devices will be recycled back for cement manufacturing. Used Oil and used lubricants would be collected in closed drums and will be sold to authorized reprocessing units. Sludge (0.4 TPA) from STP will be used as manure for green belt development. The kitchen waste will be vermin composted and used as manure for green belt development.</p>	<p>There shall be no generation of process waste from the plant. All the dusts generated from APC devices will be recycled for Cement manufacturing.</p> <p>Used Oil and used lubricants would be collected in closed drums and will be sold to Authorised Reprocessing Units. Authorisation for Hazardous Waste has already been obtained from UPPCB.</p> <p>Sludge from STP will be used as manure for green belt development.</p>	<p>Used Oil and used Lubricants are being collected in closed drums and disposed off to Authorised Reprocessing Units.</p> <p>We are using sludge from STP as manure for the development of Green Belt.</p>

		Solid Waste Management System has already been installed.	Solid Waste Management System has already been installed.
4.	A suitable shelter, light, fuel, water, Ear muffs/ear plugs will be provided to workers working in high noise prone areas. Power requirement of 6.3 MW will be sourced from BSEB.	We are providing necessary shelter, light, fuel, water, Ear Muffs/Ear Plugs, etc, to the Workers working in high noise prone areas. Power requirement (20 MVA) is being sourced from U.P. Power Corporation Ltd.	- Power requirement (15 MVA) is being sourced from U.P. Power Corporation Ltd.
5.	The Cement Grinding Units are listed at S.No.3(b) under Category "B" of the schedule of EIA Notification, 2006.	O.K.	-

A. SPECIFIC CONDITIONS:

1.	Particulate emissions shall be controlled within 50 mg/Nm ³ by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the MoEF Regional Office at Lucknow, SPCB and CPCB regularly.	Bag Filters/Bag House is being installed to restrict particulate emission less than 50 mg/Nm ³ . We are submitting the Data of Ambient Air, Fugitive and Stack emissions to SPCB, MoEF Regional Office at Lucknow and CPCB, on regular basis.	We are submitting the Data of Ambient Air, Fugitive and Stack emissions to SPCB, MoEF Regional Office at Lucknow and CPCB, on regular basis.
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2.	The national Ambient Air Quality Standards issued by the Ministry vide S.G.R.No.826(E) dated 16 th November, 2009 should be followed.	We are regularly monitoring the AAQM for PM10, PM2.5, SO2, NOx, CO.	We are regularly monitoring the AAQM for PM10, PM2.5, SO2, NOx, CO.
3.	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB should be followed.	Gaseous emission levels will be maintained within the permissible limits.	Gaseous emission levels are maintained within the permissible limits.
4.	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw meal handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyors should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyors for transportation of materials shall be provided besides cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	<p>In order to control fugitive emissions, Dust Collection and Extraction System shall be installed at various Transfer Points, Raw Material handling, bagging and packing areas, etc.</p> <p>Closed Clinker Stock Pile System has been installed.</p> <p>Conveyors have been covered with GI Sheets.</p> <p>Covered sheds are being made for storage of Raw Materials and Conveyors for transportation of materials.</p> <p>Cement is being stored in RCC Silos and Fly Ash is being stored in closed Silos and Stock Piles.</p> <p>Pneumatic System is being used for Fly Ash handling.</p>	<p>We have installed Bag Filters at various Transfer Points, Raw Material handling, bagging and packing areas, etc.</p> <p>Closed Clinker Stock Pile System has been installed.</p> <p>Conveyors have been covered with GI Sheets.</p> <p>Covered Sheds have been made for storage of Raw Materials.</p>

5.	Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading area in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Roads have been concreted / black topped and water sprinkling is being carried out, as per requirement, regularly in order to control fugitive emissions. Ambient Air Quality parameters are as per the norms prescribed by the Central Pollution Control Board.	Roads have been concreted / black topped and water sprinkling is being carried out regularly, as per requirement, in order to control fugitive emissions. Ambient Air Quality parameters are as per the norms prescribed by the Central Pollution Control Board.
6.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and should not be overloaded. Vehicular emissions should be regularly monitored.	All the Raw Materials and products are transported in closed containers to reduce the impact of the transport of Raw Materials and Cement, on the surrounding environment and agricultural land.	All the Raw Materials and products are transported in closed containers to reduce the impact of the transport of Raw Materials and Cement, on the surrounding environment and agricultural land.
7.	Total ground water requirement for the cement plant shall not exceed 200m ³ /day and necessary permission for the drawl of water shall be obtained from the Competent Authority. All the treated wastewater should 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 should be adopted.	The ground water abstraction permission has been obtained from the State Ground Water Department. Treated Domestic Sewage water from STP is being recycled and re-used for Green Belt development, etc.	Treated Domestic Sewage water from STP is recycled and re-used for Green Belt development, etc.

8.	Rainwater harvesting measures shall be adopted. The company must also 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.	Rain Water harvesting system will be installed after completion of construction activities in phased manner.	We have installed Rain Water harvesting System at our Factory Premises.
9.	All the bag filter dust, raw meal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers/re-processors only.	All the bag filter dust, raw meal dust, Clinker dust and Cement dust from Pollution Control Devices will be recycled and re-used in the process used for Cement manufacturing. Spent Oil and Batteries will be sold to Authorized Recyclers / Re-processors only.	All the bag filter dust, raw meal dust, Clinker dust and Cement dust from Pollution Control Devices are recycled and re-used in the process used for Cement manufacturing. Spent Oil and Batteries will be sold to Authorized Recyclers / Re-processors only.
10.	Green belt shall be developed in at least 33% area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	A dense Green Belt is already exists in the premises. However, we will develop more Green Belt area in and around the Cement Plant as per the guidelines of CPCB.	A dense Green Belt is already exists in the premises. However, we are developing regularly more Green Belt area in and around the Cement Plant as per the guidelines of CPCB.
11.	At least 2% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the MoEF Regional Office at Lucknow. Implementation of such program should be ensured accordingly in a time bound manner.	Action Plan has already been submitted to the respective Offices under cover of our letter No.1531 dated 29.9.12.	Action Plan has already been submitted to the respective Offices under cover of our letter No.1531 dated 29.9.12.

12.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	We have provided all the desired facilities to the construction labours and housing in the form of temporary structure and will be removed after completion of the project.	We had removed all the temporary structures since all the project activities had already been completed.
13.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	All applicable recommendations of CREP are being followed.	We are following all applicable recommendations of CREP.

B. GENERAL CONDITIONS:

i.	The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh State Pollution Control Board and the State Government.	Being complied.	Being complied.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, UP.	No expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA, UP.	No expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA, UP.

iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	This condition shall be confirmed, if applicable.	This condition shall be confirmed, if applicable.
iv.	At least four ambient air quality monitoring stations should be established in the downward directions as well as where maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NOX are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to UPPCB/CPCB and Regional Office of MoEF at Lucknow once in six months.	There are four Ambient Air Quality Monitoring Stations (two manual + two online) established in the premises for PM ₁₀ , PM _{2.5} , SO ₂ and NOX for regular monitoring and analysis. Data on Ambient Air Quality and Stack Emission are being sent regularly, on monthly basis.	There are four Ambient Air Quality Monitoring Stations (two manual + two online) established in the premises for PM ₁₀ , PM _{2.5} , SO ₂ and NOX for regular monitoring and analysis. Data on Ambient Air Quality and Stack Emission are being sent on monthly basis.
v.	Industrial wastewater shall be properly collected, 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 wastewater shall be utilized for plantation purpose.	No Industrial waste water is generated from the process. However, domestic waste water is being generated from the Residential Colony, which is being treated in the STP. The treated domestic water from STP is further utilised for plantation / green belt development.	No Industrial waste water is generated from the process. However, domestic waste water is being generated from the Residential Colony, which is being treated in the STP. The treated domestic water from STP is further utilised for plantation / green belt development.

vi.	The overall noise levels in an 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night times).	We are following the prescribed norms.	We are following the prescribed norms.
vii.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Regular health check-up of the Workers is being carried out and we are maintaining proper records.	Regular health check-up of the Workers is being carried out and we are maintaining proper records.
viii.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	System will be developed.	We have installed Rain Water harvesting System at our Factory Premises.
ix.	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.	It is being followed and Company is undertaking socio-economic development activities in the surrounding Villages like Community Development Programmes, and health care, etc.	Socioeconomic development activities are being covered under CSR work.

x.	As proposed, budget shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of MoEF at Lucknow. The funds so provided shall not be diverted for any other purpose.	We are regularly doing investment in part of environmental development.	
xi.	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.	We will comply accordingly.	
xii.	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 at Lucknow, CPCB and UPPCB. The criteria pollutant levels namely; PM ₁₀ , PM _{2.5} , SO ₂ , NOX (ambient levels as well as stack emissions) for the projects shall be monitored and	The data are being updated on Display Board at Main Gate, regularly. Data is uploaded and updated on the Company's Website, regularly.	The data are being updated on Display Board at Main Gate, regularly. Data is uploaded and updated on the Company's Website, regularly.

	displayed at a convenient location near the main gate of the company in the public domain.		
xiii.	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, CPCB and UPPCB. The Regional Office of MoEF at Lucknow / CPCB / SPCB shall monitor the stipulated conditions.	We are submitting the six monthly reports to the Regional Office of MoEF, CPCB and UPPCB.	We are submitting the six monthly reports to the Regional Office of MoEF, CPCB and UPPCB.
xiv.	The environmental statement for each financial year ending 31 st 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 Regional Office of the MoEF at Lucknow.	Submission of Form-V is a regular practice of the Company and we are uploading this on the Company's Website.	We are uploading this on the Company's Website.

xv.	<p>The Project Proponent shall inform the public that the project has been accorded Environmental Clearance by the SEIAAUP and copies of the clearance letter are available with the SPCB and may also be seen at Website of the SEIAAUP at seiaaup.com. 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 at Lucknow.</p>	<p>The general public had already been informed of the EC, through advertisements in two local newspapers. Copies of the Newspapers had already been submitted to the Board.</p>	
xvi.	<p>Project authorities shall inform the Regional Office of MoEF, Lucknow as well as the SEIAA the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p>	<ul style="list-style-type: none"> - Date of financial closure-Jun'11 - Final approval of the project- N/A - Date of commencing the land development work – 10th July'10 	<p>Commercial Production, with expanded capacity of 2.7 MTPA, had already been started from 16.01.2013.</p>
6.	<p>The SEAC/SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</p>	<p>O.K.</p>	

7.	The SEAC/SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	O.K.	
8.	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 Waste (Management, Handling and Tran-boundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules and EIA Notification, 2006 including the amendments and rules made thereafter.	The relevant applicable laws/rules and regulations will be followed by the Company.	
9.	The issue of this amended Environmental Clearance replaces the earlier Environmental Clearance granted to Diamond Cement (Prop: HeidelbergCement India Limited) vide letter No.EC 113/SEAC/136/2008 dated 21.01.2009.	O.K.	

Six Monthly Report Ambient Air 4 stack emission
 (17.05.16 to march 17)

M/s Diamond Cement (Prop. Heidelberg Cement India Limited)- Grinding Unit, Jhansi(UP)

Month: Oct 2016

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Location	PM10($\mu\text{g}/\text{m}^3$)	PM2.5($\mu\text{g}/\text{m}^3$)	CO($\mu\text{g}/\text{m}^3$)	SO2($\mu\text{g}/\text{m}^3$)	NOx($\mu\text{g}/\text{m}^3$)
Near ADM building	59.60	32.58	244	10.83	20.66
Near Khatibaba Temple	63.55	35.85	242	10.47	20.52
Behind New Weigh bridge	67.80	39.86	243	10.65	20.62
Near 132 Kv switch yard	62.58	37.25	244	10.54	20.71

Month: Oct 2016

TEST REPORT OF STACK MONITORING

Location.	S-1	S-2
Date of Monitoring	14.10.2016	14.10.2016
Stack Attached to	Bag House VRM	Bag House Cement Mill
Particulate Matter (mg/Nm ³) Isokinetic samples	17.20	22.62

M/s Diamond Cement (Prop. Heidelberg Cement India Limited)- Grinding Unit, Jhansi(UP)

Month: Nov 2016

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Location	PM10($\mu\text{g}/\text{m}^3$)	PM2.5($\mu\text{g}/\text{m}^3$)	CO($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx($\mu\text{g}/\text{m}^3$)
Near ADM building	62.85	34.66	244	10.73	20.59
Near Khatibaba Temple	65.70	36.85	245	10.47	20.61
Behind New Weigh bridge	68.96	40.25	246	10.91	20.86
Near 132 Kv switch yard	65.20	38.30	247	10.79	20.91

Month: Nov 2016

TEST REPORT OF STACK MONITORING

Location.	S-1	S-2
Date of Monitoring	8.11.2016	8.11.2016
Stack Attached to	Bag House VRM	Bag House Cement Mill
Particulate Matter (mg/Nm ³) Isokinetic samples	15.80	24.82

M/s Diamond Cement (Prop. Heidelberg Cement India Limited)- Grinding Unit, Jhansi(UP)

Month: Dec 2016

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Location	PM10($\mu\text{g}/\text{m}^3$)	PM2.5($\mu\text{g}/\text{m}^3$)	CO($\mu\text{g}/\text{m}^3$)	SO2($\mu\text{g}/\text{m}^3$)	NOx($\mu\text{g}/\text{m}^3$)
Near ADM building	60.70	32.40	245	10.76	20.64
Near Khatibaba Temple	63.80	34.60	243	10.64	20.62
Behind New Weigh bridge	68.26	41.11	246	10.81	20.90
Near 132 Kv switch yard	66.98	39.69	249	10.78	20.88

Month: Dec 2016

TEST REPORT OF STACK MONITORING

Location.	S-1	S-2
Date of Monitoring	11.12.2016	11.12.2016
Stack Attached to	Bag House VRM	Bag House Cement Mill
Particulate Matter (mg/Nm ³) Isokinetic samples	19.60	22.86

M/s Diamond Cement (Prop. Heidelberg Cement India Limited)- Grinding Unit, Jhansi(UP)

Month: Jan 2017

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Location	PM10($\mu\text{g}/\text{m}^3$)	PM2.5($\mu\text{g}/\text{m}^3$)	CO($\mu\text{g}/\text{m}^3$)	SO2($\mu\text{g}/\text{m}^3$)	NOx($\mu\text{g}/\text{m}^3$)
Near ADM building	57.60	31.43	247	10.78	20.99
Near Khatibaba Temple	62.55	36.50	244	10.55	21.93
Behind New Weigh bridge	70.53	43.40	246	10.77	21.14
Near 132 Kv switch yard	68.90	40.10	250	10.83	21.28

Month: Jan 2017

TEST REPORT OF STACK MONITORING

Location.	S-1	S-2
Date of Monitoring	12.01.2017	12.01.2017
Stack Attached to	Bag House VRM	Bag House Cement Mill
Particulate Matter (mg/Nm ³) Isokinetic samples	18.20	24.50

M/s Diamond Cement (Prop. Heidelberg Cement India Limited)- Grinding Unit, Jhansi(UP)

Month: Feb 2017

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Location	PM10($\mu\text{g}/\text{m}^3$)	PM2.5($\mu\text{g}/\text{m}^3$)	CO($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx($\mu\text{g}/\text{m}^3$)
Near ADM building	60.20	34.50	252	11.04	21.60
Near Khatibaba Temple	68.50	40.20	250	10.90	22.06
Behind New Weigh bridge	73.50	46.80	256	10.96	21.54
Near 132 Kv switch yard	70.80	44.60	254	11.11	22.03

Month: Feb 2017

TEST REPORT OF STACK MONITORING

Location.	S-1	S-2
Date of Monitoring	14.02.2017	14.02.2017
Stack Attached to	Bag House VRM	Bag House Cement Mill
Particulate Matter (mg/Nm ³) Isokinetic samples	21.40	24.50

M/s Diamond Cement (Prop. Heidelberg Cement India Limited)- Grinding Unit, Jhansi(UP)

Month: Mar 2017

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Location	PM10(µg/m3)	PM2.5(µg/m3)	CO(µg/m3)	SO2(µg/m3)	NOx(µg/m3)
Near ADM building	64.58	34.35	257	11.13	21.12
Near Khatibaba Temple	69.20	38.50	253	11.05	21.27
Behind New Weigh bridge	78.80	44.50	249	11.24	21.28
Near 132 Kv switch yard	69.60	36.85	254	11.0	19.69

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Location	Ozone (µg/m3)	Ammonia (µg/m3)	Lead (µg/m3)	Benzene (µg/m3)	Benzof(a) Pyrene (µg/m3)	Arsenic (µg/m3)	Nickel (µg/m3)
Near ADM building	4.64	3.81	BDL	BDL	BDL	BDL	BDL
Near Khatibaba Temple	4.70	3.53	BDL	BDL	BDL	BDL	BDL
Behind New Weigh bridge	4.71	3.80	BDL	BDL	BDL	BDL	BDL
Near 132 Kv switch yard	5.10	3.65	BDL	BDL	BDL	BDL	BDL

Month: Mar 2017

TEST REPORT OF STACK MONITORING

Location.	S-1	S-2
Date of Monitoring	16.03.2017	16.03.2017
Stack Attached to	Bag House VRM	Bag House Cement Mill
Particulate Matter (mg/Nm³) Isokinetic samples	26.50	28.20