



# SHREE CEMENT LTD.

(Unit: Karnataka Cement Project)

Village Benkanhalli and Kodla, Post: KODLA-585222  
Post Box No.01, Tq. Sedam, Dist. Kalaburagi, Karnataka  
CIN NO.:L26943RJ1979PLC001935,Website:www.shreecementltd.in



SCL /KCP /EC/2019-20/ 46

Date: 16.05.2019

The Director (Industry-I),  
Ministry of Environment & Forest,  
Indira Paryavaran Bhawan,  
Jor Bagh Road, Ali Ganj,  
New Delhi-110003.

Sub: - Regarding Environment Clearance compliance of Integrated Cement Project (Clinker - 2.4 MTPA, Cement - 4.0 MTPA, Captive Power Plant - 44 MW & Captive Limestone Mine - 3.8 MTPA, ML area 517.61 ha, ML no. 2673 & 2674,) at Villages Kodla & Benkanhalli, Taluka Sedam, District: Kalaburagi, Karnataka by M/s. Shree Cement Ltd (Unit: Karnataka Cement Project).

Ref: 1) EC letter no. J-11011/458/2008-IA-II (I) dated 19<sup>th</sup> Sept. 2012  
2) Amendment in EC letter no. J-11011/458/2008-IA-II (I) dated 9<sup>th</sup> Feb. 2018

Dear Sir,

Kindly refer to the above subject matter and referred letters. We are submitting herewith the compliance status of above EC conditions from October - 2018 to March - 2019.

This is for your kind information please.

Thanking you,  
Yours faithfully,  
For SHREE CEMENT LIMITED,  
(Unit: Karnataka Cement Project)

(Arvindkumar Patil)  
Unit Head

Copy to:

1. The Member Secretary, Karnataka State Pollution Control Board, "Parisara bhavan" No. 49, 4th & 5th Floor, Church Street, Bangalore - 560 001, Karnataka.
2. Zonal Officer, CPCB, 1st & 2nd Floors, Nisarga Bhavan, A-Block, Thimmaiah Main Road, 7th D Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru -560 010.
3. Director, Regional Office (Southern Zone), Kendariya Sadan, IVth Floor, E&F Wings, 17th Main Road, IInd block, Koramangala, Bangalore-560034.

**Compliance Status of Environment Clearance**

EC letter no. J-11011/458/2008-IA-II (I) dated 19th Sept. 2012 and amendment on 9<sup>th</sup> Feb. 2018  
October - 2018 to March - 2019

**Specific Conditions:**

S. No.	Condition	Compliance
I	Rehabilitation and Resettlement Plan for the project affected population including tribals, if applicable, shall be implemented as per the policy of the State Govt. in consultation with the State Govt. of Karnataka. Compensation paid in any case shall not be less than the norms prescribed under the National Resettlement and Rehabilitation Policy, 2007.	There is no Rehabilitation and Resettlement in plant and lease area.
ii	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the KSPCB. At no time, particulate emissions from the cement plant including kiln, coal mill, cement mill, cooler and CPP shall not exceed 50 mg/Nm <sup>3</sup> .	Stack emission level for PM has been maintained <30 mg/Nm <sup>3</sup> for stacks of raw mill & kiln, coal mill, cement mill and clinker cooler as per the new emission norms prescribed by the MoEF & CC.
iii	Continuous on-line monitors for particulate emissions shall be installed. 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.	<ul style="list-style-type: none"> <li>• Continuous emission monitoring system (CEMS) has been installed for the measurement of PM, SO<sub>2</sub> and NO<sub>x</sub>.</li> <li>• Opacity meters have been installed for continuous monitoring of PM at the stack of Raw mill &amp; Kiln, Clinker Cooler, Cement mill, and Coal mill.</li> <li>• CEMS have been installed for continuous emission monitoring of SO<sub>2</sub> and NO<sub>x</sub> at the stack of Raw Mill-Kiln.</li> <li>• Interlocked provided with all pollution control measure.</li> </ul>

iv	<p>Data on ambient air quality (PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>) shall be regularly submitted to the Ministry including its Regional office at Bangalore and the State Pollution Control Board/Central Pollution Control Board once in six months.</p> <p>Further, quality of discharged water shall also be monitored [(TDS, DO, pH) and total Suspended solids (TSS)].</p> <p>The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain.</p>	<ul style="list-style-type: none"> <li>• Data on ambient air quality (PM 2.5, PM10, SO<sub>2</sub> and NO<sub>x</sub>) level are being monitored on regular basis and data are submitted to the Ministry including its Regional office at Bangalore and the State Pollution Control Board/Central Pollution Control Board. NABL certified lab analysis report and our lab analysis reports are attached as <b>Annexure-1</b>.</li> <li>• RO discharge is being reused for mill spray. The wastewater generated from domestic purpose is being treated in the 25 KLD capacity STP. Treated waste water is being used in the green belt development.</li> <li>• Monitored data is being uploaded on the website of the company. Monitored data is being displayed at the main gate of the company.</li> </ul>
v	The Company shall install low NO <sub>x</sub> burner with Kiln/calciner for control of NO <sub>x</sub> emissions.	Low NO <sub>x</sub> burners have been installed with kiln & calciner for control of NO <sub>x</sub> emissions.
vi	Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.	<ul style="list-style-type: none"> <li>• For the control of fugitive emissions, we have installed Bag filters at all material transfer points, silos tops, silos extraction and unloading hoppers.</li> <li>• Only covered vehicle are deployed for cement and clinker transportation.</li> <li>• Closed containers and bulkers are being deployed for fly ash transportation.</li> <li>• All movement area is being concreted.</li> <li>• Silos are used for the storage of clinker and fly ash.</li> <li>• Covered Conveyor belts provided.</li> <li>• The construction of closed shed for storage of raw material i.e. limestone, Laterite, slag, gypsum, pond ash and Coal is under progress.</li> <li>• Vacuum Sweeping Machines are being used for better housekeeping and regular water sprinkling wherever required is being done to control the</li> </ul>

		<p>fugitive emissions.</p> <ul style="list-style-type: none"> <li>• Plantation has been developed to further reduce any fugitive emissions.</li> <li>• Fugitive emissions are within limit. Emission level is enclosed as <b>Annexure-II</b></li> </ul>
vii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be followed.	<p>The National Ambient Air Quality Emission Standards are being followed and the emission levels are maintained well within the limits. The ambient air quality monitored data are enclosed as Annexure – I.</p> <p>Stack emission monitoring report is enclosed as <b>Annexure-III</b>.</p>
viii.	Measures shall be taken to mitigate 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 shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions should be regularly monitored.	<ul style="list-style-type: none"> <li>• All the materials i.e., limestone, coal, flyash, clinker are transported through covered belts. All the material transfer points are equipped with dust bag filters.</li> <li>• Fly ash is being transported in closed trucks &amp; bulkers. Cement, clinker and other raw material are being transported in covered trucks.</li> <li>• Vehicles with PUC shall be allowed.</li> </ul>
ix	Fly ash shall be utilized as per the provisions of Fly Ash Notification, 1999, subsequently amended in 2009. Fly ash shall be stored in ash silo and 100% used in the cement manufacturing.	<ul style="list-style-type: none"> <li>• Fly ash is being utilized in making Portland Pozollona Cement (PPC).</li> <li>• Fly ash is being stored in fly ash silo.</li> </ul>
x.	<p>The company shall make the efforts to utilize the high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly.</p> <p>The company shall keep the record of the waste utilized and shall submit the details to Ministry's Regional Office at Bangalore, CPCB and SPCB.</p>	<p>Authorization from the KSPCB has been obtained on 18/02/2019 for co-processing of hazardous waste. Following waste are being co-processed in cement Kiln.</p> <ul style="list-style-type: none"> <li>• Organic Residue</li> <li>• Spent Carbon</li> <li>• Pre-processed Waste</li> <li>• ETP Sludge</li> </ul>
xi	Rainwater harvesting measures shall be adopted for the augmentation of ground water at cement plant, colony including check dams at	<ul style="list-style-type: none"> <li>• Rain water recharge measures such as construction of check dams, recharge structures, roof top harvesting etc. shall be implemented in and around the</li> </ul>

	<p>mine site. The company must also collect rain water in the mined out pits of captive lime stone mine and use the same water for the various activities of the project to conserve fresh water and reduce the water requirement from the ground water. An action plan shall be submitted to Ministry's Regional Office at Bangalore within 3 months from date of issue of this letter. Efforts should be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.</p>	<p>plant site.</p> <ul style="list-style-type: none"> <li>• Following rain water harvesting measures are being developed at site:</li> <li>• Initially one pit of 5 Lakh litre water capacity in mines area is being developed to collect rain water.</li> <li>• Water conservation activities such as water harvesting by connecting all the storm water drains to water harvesting pond of capacity 2.6 lakhs liters is completed in plant premises.</li> <li>• Recharge structures are being developed at withdrawal wells.</li> <li>• All pits will be used for ground water recharge and direct use of surface water for plant &amp; mine operation. Plan for recharging of ground water has been submitted along with EIA/EMP reports.</li> </ul>
xii.	<p>Total requirement shall not exceed 2,000 m<sup>3</sup>/day. The water stored in the artificial reservoir made in the mine pit shall be used maximum to reduce ground water consumption. No effluent should be discharged from the mine to any water body or nearby river.</p>	<p>Total water consumption is well within the consented capacity and will not exceed more than 2000 m<sup>3</sup>/day. The waste water from mines workshop shall be used for dust suppression after removal of oil and grease.</p>
xiii.	<p>Top soil, if any, shall be stacked with proper slope at earmarked site(s) only with adequate measures and shall be used for reclamation and rehabilitation of mined out areas.</p>	<p>Separate stacking of Top soil with proper slope at earmarked site is under process and will be used for reclamation and rehabilitation of mined out areas and plantation whenever required.</p>
xiv.	<p>The project proponent shall ensure that no natural water course shall be obstructed due to any mining and plant operations. The company shall make the plan for protection of the natural water course passing through the plant and mine area premises and submit to the Ministry's Regional Office at Bangalore.</p>	<p>There is no natural water body in mining area.</p>

xv.	<p>The inter burden and other waste generated shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The total height of the dumps shall not exceed 30 m in three terraces of 10 m each and the overall slope of the dump shall be maintained to 28°. The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment &amp; Forests and its Regional Office, Bangalore on six monthly basis.</p>	As per Mining Plan "No inter burden /other waste".
xvi.	<p>The void left unfilled shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation to be done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.</p>	Excavation is in Initial stage, will be complied as and when required.
xvii.	<p>Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted, particularly after monsoon and maintained properly.</p>	Siltation pond will be constructed during development of working pit.
xviii.	<p>Garland drain of appropriate size, gradient and length shall be</p>	<ul style="list-style-type: none"> <li>• No inter burden dumps.</li> <li>• Siltation pond will be constructed</li> </ul>

	constructed for both mine pit and inter burden dumps and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.	during development of working pit.
xix.	Dimension of the retaining wall at the toe of inter burden dumps and inter burden benches within the mine to check run-off and siltation shall be based on the rain fall data.	<ul style="list-style-type: none"> <li>• No inter burden dumps.</li> <li>• For Mine pit - Excavation is in Initial stage, will be complied as and when required.</li> </ul>
xx.	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central Ground Water Board. The frequency of monitoring shall be four times a year- pre-monsoon (April / May), monsoon (August), post-monsoon (November), and winter (January). Data thus collected shall be sent at regular intervals to Ministry of Environment and Forests and its Regional Office at Bangalore, Central Ground Water Authority and Central Ground Water Board.	<ul style="list-style-type: none"> <li>• Regular monitoring of ground water level and quality is being carried out. The monitoring frequency is as per new CGWA guidelines Nov. 2015 to monitor monthly ground water level &amp; quarterly water quality by NABL certified lab. Copy of the monitoring report and ground water level is enclosed as <b>Annexure-IV &amp; Annexure-V</b>.</li> <li>• Data collected is being sent to MOEF and its Regional Office, Central Ground Water Authority and State Ground Water Board annually.</li> </ul>
xxi.	Wet drilling sequential and controlled blasting method and provision for the control air emissions during blasting using dust collectors etc. shall be used. The mitigate measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.	<ul style="list-style-type: none"> <li>• Wet drilling is being done.</li> <li>• Controlled Blasting technique is being implemented during blasting.</li> </ul>

xxii.	Bench height, width and slope for individual bench shall be properly assessed and implemented. Adequate measures should be adopted to stabilize the slope before abandonment. The fencing around the reservoir should be provided to prevent accidents.	<ul style="list-style-type: none"> <li>• Bench height, width and slope for individual bench is maintained as per Mining Plan.</li> <li>• Adequate measures will be adopted to stabilize the slope before abandonment.</li> <li>• Excavation of mine pit is in Initial stage which will be used to harvest rain water. Fencing around the same will be complied as and when required.</li> </ul>
xxiii.	Action plan for the mining, management of over burden (removal, storage, disposal etc.), reclamation of the mined out area and mine closure should be submitted to the Ministry and its Regional Office at Bangalore.	Submitted on 23/10/2012.
xxiv.	As proposed, green belt shall be developed in 33% of the plant and mine area as per the CPCB guidelines in consultation with DFO.	<ul style="list-style-type: none"> <li>• Plantation work is being carried out inside the plant premises. Sapling are planted in phase wise manner. About 30581 sapling have been planted in the plant area.</li> <li>• In the mine area 4270 sapling have been planted along the boundary.</li> <li>• Further saplings will be planted all along the plant and mines boundary.</li> </ul>
xxv.	All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) for the cement plants shall be strictly followed.	All CREP recommendation shall be implemented as follows.

S. No.	CREP Condition	Action Plan
1.	The new cement kiln to be accorded NOC/ Environmental Clearance w.e.f 1/4/03 will meet the limit of 50 mg/Nm <sup>3</sup> for particulate matter emission.	All PCM are designed to meet the limit of 30 mg/Nm <sup>3</sup> for particulate matter emission level.
2.	The cement industries will control fugitive emission from all raw material and product storage and transfer points by December 2003. However, the National Task Force will decide the feasibility for the control of fugitive emission from limestone and coal storage areas. The NTF shall submit its recommendations within months.	<p>All raw material and product are stored under covered shade.</p> <p>The construction of closed shed for storage of limestone, Laterite, slag, gypsum, pond ash and Coal is under progress.</p> <p>Bag filters for all material transfer points is provided to control the fugitive emission.</p> <p>All conveyor belts are covered.</p> <p>All movement area is cemented and seeping is being done by vacuum sweeping machine.</p>



3.	Industries will submit the target date to enhance the utilization of waste material by April 2003.	Fly ash and slag will be utilized in cement manufacturing and other available waste will be utilized.
4.	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Authorization from the KSPCB has been obtained on 18/02/2019 for co-processing of hazardous waste. Following waste are being co-processed in cement Kiln. <ul style="list-style-type: none"> <li>• Organic Residue</li> <li>• Spent Carbon</li> <li>• Pre-processed Waste</li> <li>• ETP Sludge</li> </ul>
5.	Cement industries will carry out feasible study and submit target dates to CPCB co-generation of power by July-2003.	30 MW waste heat recovery power plant is under installation
xxvi.	The company shall adopt well laid down corporate environment policy and identified and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with environmental clearance, environmental laws and regulations.	<ul style="list-style-type: none"> <li>• Corporate environment policy has been adopted and submitted on 23/10/2012.</li> <li>• Full fledged team having expertise of environment, horticulture, emission control are being deputed to carry out day to day activities for compliance of environment condition.</li> </ul>
xxvii.	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral.	PUC certified vehicles are allowed at the site.
xxviii.	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, KSPCB and CPCB within 3 months of issue of environment clearance letter.	Submitted along with EIA/EMP report.
xxix.	Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure, for approval.	Submitted on 23/10/2012.
xxx.	The company shall comply with the commitments made during public hearing held on 2 <sup>nd</sup> March, 2012 and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at	All commitments made during the public hearing have been incorporated in CSR activities.

	Bangalore.	
xxxi.	At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on public hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program should be ensured accordingly in a time bound manner.	5% of the total cost of the project is already earmarked and time bond action plan is Submitted on 23/10/2012.
xxxii.	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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	<ul style="list-style-type: none"> <li>• Housing, toilets with soak pits &amp; septic tank, safe drinking water, medical healthcare etc. have been provided to construction labors.</li> <li>• Temporary housing facility for construction labour has been constructed by the industry.</li> </ul>

**General conditions:**

S. No.	Condition	Compliance
i	The project authority shall adhere to the stipulations made by Karnataka State Pollution Control Board (KSPCB) and State Government.	Yes, all recommendation of Karnataka State Pollution Control Board (KSPCB) and State Government shall be implemented.
ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Agreed. Prior permission will be taken for further expansion.
iii	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 PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this	The continuous ambient air quality monitoring stations at 4 locations has been installed. <ol style="list-style-type: none"> <li>1. AAQMS-1 West side plant and mine boundary.</li> <li>2. AAQMS-2 East side plant and mine boundary.</li> <li>3. AAQMS-3 North Side boundary wall and</li> </ol>

	Ministry including its Regional Office and SPCB / CPCB once in six months.	<p>4. AAQMS-4 South mine boundary (Khasara No. 898).</p> <p>Four continuous ambient air quality monitoring stations established at the boundary of plant and mines for the measurement of PM2.5, PM10, SO2 and NOX.</p> <p>Data on ambient air quality and stack emissions of cement mill are being submitted to the MOEF including its Regional Office and SPCB / CPCB on regular basis.</p> <p>Presently ambient air quality monitoring is being carried out by the NABL certified laboratory once in six months.</p>
iv	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	<p>No effluent is being generated from cement manufacturing process. RO reject water is being utilised in mill spray. The wastewater generated from domestic purpose is being treated in the STP and treated waste water is used in the green belt development.</p> <p>Analysis of STP treated water is enclosed as <b>Annexure-VI</b>.</p>
v	The overall noise levels in and around the plant area shall be kept well within the standards 85 dB(A) 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, 1989 viz. 75 dB(A) (day time) and 70 dB(A) (night time).	<ul style="list-style-type: none"> <li>• Personnel protective equipment have been provided. Acoustic enclosures have been provided at high noise area.</li> <li>• Plantation is being carried out at all around the plant boundary.</li> <li>• Proper maintenance and lubrication is being done of all machines to maintain the noise level of 85 dB(A) in plant premises and 75 dB(A) (day time) and 70 dB(A) (night time) at the plant boundary. Report are enclosed as <b>Annexure- VII</b>.</li> </ul>
vi	Proper housekeeping and adequate occupational health programmes shall be taken up. Occupational Health	<ul style="list-style-type: none"> <li>• Proper housekeeping of the entire plant area is being maintained.</li> <li>• Occupational health programmes</li> </ul>

	Surveillance programme shall be done on a regular basis and records maintained properly for at least 30-40 years. The programme shall include lung function and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	are being organized on a regular basis and records are maintained. • Pre-employment and periodical medical examination of all the employees is being carried out. PPEs are provided to all the workmen and staff.
vii.	The company shall undertake eco-development measures including community welfare measures in the project area.	Plantation in and around the plant area has been started. Various community welfare measures including education, healthcare, infrastructure, drinking water etc. is being carried out for upliftment of the surrounding area.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP.	Environmental protection measures and safeguards recommended in EIA/ EMP is being implemented.
ix	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 Senior Executive.	A separate environmental management cell with full-fledged laboratory facilities has been set up to carry out various management and monitoring functions under the control of unit head.
x.	Adequate fund shall be allocated 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. The funds so provided shall not be diverted for any other purpose.	Adequate funds are available for implementation of the conditions stipulated by the Ministry of Environment Forests and Climate Change as well as the State Government. All recommendation shall be implemented along with the plant commissioning.
xi	The Regional Office of this Ministry / CPCB /KSPCB shall monitor the stipulated conditions. The project authorities shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	• Full cooperation will be extended to the officer (s) of the Regional Office of this Ministry / CPCB / KSPCB. • Six monthly compliance reports and the monitored data along with statistical interpretation is being submitted regularly.

xii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both on hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the KSPCB.	Six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both hard copies as well as by e-mail) is being sent to the MOEF & CC & CPCB regional Offices and the KSPCB.
xiii.	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.	<ul style="list-style-type: none"> <li>• We have informed the MoEF &amp; CC Head office, Delhi &amp; Regional office Bangalore and KSPCB Bangalore on 04.05.2017 that the start date of construction activities as well as land development work of project (industry) is 03.12.2016.</li> <li>• We have informed the DGMS, IBM, Dy. Commissioner (Gulbarga) regarding date of opening of captive mine on 5.12.2016.</li> </ul>
xiv.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. No change in the calendar plan including excavation, quantum of limestone and waste shall be made.	<ul style="list-style-type: none"> <li>• No change in mining technology and scope of working shall be done without prior approval of the MOEF.</li> <li>• No change in the calendar plan including excavation, quantum of limestone and waste shall be done.</li> </ul>
xv.	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with ear plugs/ muffs.	<ul style="list-style-type: none"> <li>• Personnel protective equipment have been provided. Acoustic enclosure have been provided at high noise area.</li> <li>• Plantation is being carried out all around the plant boundary.</li> </ul>
xvi.	Industrial waste water (workshop and waste water from the mine) 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. Oil and grease trap shall be installed before discharge of workshop effluents.	<ul style="list-style-type: none"> <li>• Workshop waste water will be utilized in crusher after separation of oil and grease.</li> <li>• Waste water generated from the mine toilet will be disposed off in soak pit via septic tank.</li> </ul>
xvii.	Personnel working in dusty areas shall wear protective respiratory devices and	<ul style="list-style-type: none"> <li>• Personnel protective equipment's such as Safety helmet, ear muffs,</li> </ul>

	they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	gloves, dust masks etc. are provided to all. <ul style="list-style-type: none"> <li>• Adequate training and information on safety and health aspects will be provided to all.</li> <li>• Occupational health surveillance program for workers and staff is being undertaken periodically to observe any contractions due to exposure to dust and no any such type of case observed.</li> </ul>
xviii.	The project authorities shall inform to the Regional Office located regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	<ul style="list-style-type: none"> <li>• We have informed the MoEF &amp; CC Head office, Delhi &amp; Regional office Bangalore and KSPCB Bangalore on 04.05.2017 that the date of start the construction activities as well as land development work of project (industry) is 03.12.2016.</li> <li>• We have informed the DGMS, IBM, Dy. Commissioner (Gulbarga) regarding date of opening of captive mine on 5.12.2016.</li> </ul>
xix	A copy of clearance letter shall be marked to concerned Panchayat / local NGO, if any, from whom suggestion/representation, if any, was received while processing the proposal.	<ul style="list-style-type: none"> <li>• Copy of environment clearance letter has been sent on 04.10.2012.</li> <li>• EC letter has been put on our web site:- <a href="http://www.shreecement.in">www.shreecement.in</a></li> </ul>
xx.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/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 put up on the website of the Company by the proponent.	<ul style="list-style-type: none"> <li>• Copy of environment clearance letter has been sent on 04.10.2012. to panchayath, zillaprishath.</li> <li>• EC letter has been put on our web site:- <a href="http://www.shreecement.in">www.shreecement.in</a></li> </ul>
xxi.	The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the	Advertised in two local newspapers widely circulated in the region namely, The Hindu on 29/09/2012 and Vijay Karnataka on 30/09/2012 (copy already submitted).

	Karnataka State Pollution Control Board and also at web site of the Ministry of Environment and Forests at " <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same shall be forwarded to the Regional Office of this Ministry.	
xxii.	The environmental statement for each financial year ending 31 <sup>st</sup> 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 EC conditions and shall also be sent to the respective regional Office of the MoEF by e-mail.	Environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V is being submitted to the concerned State Pollution Control Board on 20/11/2018. The status of compliance of EC conditions is sent to the respective regional Office of the MoEF and is put on the website of the Company

**SCL AAQ analysis report:**

**Annexure-I**

Location Name	Month	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )
AAQ-1 Near West Plant and Mine Boundary	Oct-18	38.1	60.3	10.3	12.4
	Nov-18	37.1	59.2	10.1	11.9
	Dec-18	40.8	63.6	9.8	11.3
	Jan-19	38.9	62.8	9.2	10.4
	Feb-19	40.1	64.3	10.1	11.2
	March-19	37.2	62.6	9.8	11.6
AAQ-2 Near East Side Plant and Mine Boundary	Oct-18	34.5	57.3	8.6	10.4
	Nov-18	33.8	56.1	8.1	9.8
	Dec-18	36.4	60.8	9.2	10.6
	Jan-19	35.1	62.6	9.7	11.3
	Feb-19	36.8	61.2	9.1	10.8
	March-19	32.8	59.7	8.9	10.5
AAQ-3 Near North side Boundary wall	Oct-18	26.8	51.3	8.9	11.8
	Nov-18	27.9	51.8	9.1	12.1
	Dec-18	29.1	53.7	9.9	11.7
	Jan-19	28.3	55.2	9.2	10.4
	Feb-19	30.8	58.7	8.9	10.8
	March-19	29.2	56.5	9.1	11.3
AAQ-4 Near South Mine Boundary	Oct-18	22.3	47.8	8.6	10.5
	Nov-18	23.1	48.6	9.1	11.6
	Dec-18	25.4	54.2	9.4	10.8
	Jan-19	23.2	51.6	8.3	9.4
	Feb-19	25.1	53.6	8.9	10.1
	March-19	24.8	51.7	8.2	9.9



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**ISSUED TO:**

**SHREE CEMENT LIMITED**  
**(UNIT KARNATAKA CEMENT PROJECT)**  
**VILLAGE KODLA,**  
**TALUKA SEDAM KALABURAGI,**  
**KARNATAKA.**

Report Number : VLL/VLS/18/11824/007  
Issued Date : 2019-01-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.  
And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL  
Designation : Sr. Engineer-Environment

Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING**


Sample Registration Date : 2018-12-31 Sampling Date : 2018-12-28  
Analysis Starting Date : 2018-12-31 Analysis Completion Date : 2019-01-05  
Test Required : PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub>, and CO.

SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**

Sr. No.	Location Details	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO µg/m <sup>3</sup>		
						I	II	III
1	Near Switch Yard-1	28.7	65.8	14.1	17.1	251	336	267
2	Near east side plant & mine boundary	26.3	63.4	13.7	15.7	228	327	284
3	Near Crusher	31.5	68.7	14.2	17.8	237	371	294
4	Near Mines south side	30.6	70.1	15.7	19.5	242	351	276
<b>Limits As Per NAAQS</b>		<b>60</b>	<b>100</b>	<b>80</b>	<b>80</b>	<b>2000</b>		
Test Methods		Gravimetric Method		Improved West & Geake	Modified Jacob & Hochheiser Method	NDIR spectroscopy method		

PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub>, is monitored on 24 hrs. Basis & CO is monitored on 8 hrs basis.

  
Dr. Subba Reddy Mallampati  
Group Leader - Environment

SCL Fugitive Emission: - (All Values in  $\mu\text{g}/\text{m}^3$ )

Annexure-II

<b>Location Month</b>	<b>Packing Plant</b>	<b>Near Clinker Silo</b>	<b>Near Lime Stone Crusher</b>
<b>Norms</b>	<b>5000</b>	<b>5000</b>	<b>5000</b>
Oct-18	3526	3126	3726
Nov-18	3628	3216	3861
Dec-18	3426	3567	4023
Jan-19	3591	3428	3826
Feb-19	3678	3625	3912
March-19	3826	3748	4112

**Cement Mill Stack****Vimta Labs Limited**

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ISSUED TO  
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VILLAGE KODLA,  
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KARNATAKA.

**Vimta** 

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Report Number : VLL/VLS/18/08043/003  
Issued Date : 2018-11-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.  
And Date : 2018-06-15


Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL

Test Required : Particulate Matter  
Sample Collected date : 2018/10/07  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.57
Flue Gas Temperature	°C	-	98
Velocity	m/sec	IS:11255 PART (III)	6.7
Moisture Content, V/V	%	IS:11255 PART (III)	3.2
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	15.2

  
**Dr. Subba Reddy Mallampati**  
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Report Number : VLL/VLS/18/10006/003  
Issued Date : 2018-12-04  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.  
And Date : 2018-06-15

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL**

Test Required : Particulate Matter  
Sample Collected date : 2018/11/22  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.57
Flue Gas Temperature	°C	-	91
Velocity	m/sec	IS:11255 PART (III)	7.1
Moisture Content, V/V	%	IS:11255 PART (III)	3.1
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	14.2

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**ISSUED TO:**

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**VILLAGE KODLA,**  
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**KARNATAKA.**

Report Number : VLL/VLS/18/11415/001  
Issued Date : 2019-01-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.  
And Date : 2018-06-15

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL**

Test Required : Particulate Matter  
Sample Collected date : 2018/12/18  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	55
Velocity	m/sec	IS:11255 PART (III)	5.56
Moisture Content, V/V	%	IS:11255 PART (III)	4.2
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	5.8

**Dr. Subba Reddy Mallampati**  
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**VILLAGE KODLA,**  
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**KARNATAKA.**

Report Number : VLL/VLS/18-19/11011/04  
Issued Date : 2019-02-02  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-  
4188/Amd-1.  
And Date : 2018-06-15

Kind Attn. : Mr. J. Sunil  
Designation : Sr. Engineer-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL**

Test Required : Particulate Matter  
Sample Collected date : 2019/01/30  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	66
Velocity	m/sec	IS:11255 PART (III)	7.92
Moisture Content, V/V	%	IS:11255 PART (III)	3.5
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	10.2

**Dr. Subba Reddy Mallampati**  
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**VILLAGE KODLA,**  
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**KARNATAKA.**

Report Number : VLL/VLS/18/11231/01  
Issued Date : 2019-03-11  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.  
And Date : 2018-06-15

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL**

Test Required : Particulate Matter  
Sample Collected date : 2019/02/20  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	77
Velocity	m/sec	IS:11255 PART (III)	5.0
Moisture Content, V/V	%	IS:11255 PART (III)	4.5
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	8.2

**Dr. Subba Reddy Mallampati**  
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**KARNATAKA.**

Report Number : VLL/VLS/18-19/16018/04  
Issued Date : 2019-04-12  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.  
And Date : 2018-06-15

Kind Attn. : Mr. J. Sunil  
Designation : Sr. Engineer-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL**

Test Required : Particulate Matter  
Sample Collected date : 2019/03/30  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m <sup>2</sup>	-	12.56
Flue Gas Temperature	°C	-	61
Velocity	m/sec	IS:11255 PART (III)	7.84
Moisture Content, V/V	%	IS:11255 PART (III)	3.8
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	6.9

**Dr. Subba Reddy Mallampati**  
Group Leader- Environment



## Raw Mill Stack

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**VILLAGE KODLA,**  
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**KARNATAKA.**

Report Number : VLL/VLS/18/11824/001  
Issued Date : 2019-01-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.  
And Date : 2018-12-10

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN**

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;  
Sample Collected date : 2018/12/28  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	141
Velocity	m/sec	IS:11255 PART (III)	17.36
Flow	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	305.15
Oxygen	%	Flue Gas Analyzer	9.2
Moisture Content, V/V	%	IS:11255 PART (III)	2.2
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	7.4
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	532

PM, SO<sub>2</sub> and NO<sub>x</sub> corrected to 10% oxygen

**Dr. Subba Reddy Mallampati**  
Group Leader- Environment

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VILLAGE KODLA,  
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KARNATAKA.**

Report Number : VLL/VLS/18-19/11011/01  
Issued Date : 2019-02-02  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-  
4188/Amd-1.  
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil  
Designation : Sr. Engineer-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN**

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;  
Sample Collected date : 2019/01/31  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	160
Velocity	m/sec	IS:11255 PART (III)	18.72
Flow	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	319.05
Oxygen	%	Flue Gas Analyzer	8.8
Moisture Content, V/V	%	IS:11255 PART (III)	2.6
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	8.4
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	578

PM, SO<sub>2</sub> and NO<sub>x</sub> corrected to 10% oxygen

**Dr. Subba Reddy Mallampati**  
Group Leader- Environment

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Report Number : VLL/VLS/18/11231/03  
Issued Date : 2019-03-11  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.  
And Date : 2018-12-10

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN**

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;  
Sample Collected date : 2019/02/27  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	149
Velocity	m/sec	IS:11255 PART (III)	15.4
Flow	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	294.56
Oxygen	%	Flue Gas Analyzer	9.8
Moisture Content, V/V	%	IS:11255 PART (III)	2.7
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	6.5
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	551

PM, SO<sub>2</sub> and NO<sub>x</sub> corrected to 10% oxygen

**Dr. Subba Reddy Mallampati**  
**Group Leader- Environment**

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VILLAGE KODLA,  
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KARNATAKA.**

Report Number : VLL/VLS/18-19/16018/01  
Issued Date : 2019-04-12  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.  
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil  
Designation : Sr. Engineer-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN**

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;  
Sample Collected date : 2019/03/28  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	5.6
Area of stack	m <sup>2</sup>	-	24.64
Flue Gas Temperature	°C	-	151
Velocity	m/sec	IS:11255 PART (III)	18.58
Flow	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	318.96
Oxygen	%	Flue Gas Analyzer	8.6
Moisture Content, V/V	%	IS:11255 PART (III)	2.8
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	8.9
Sulphur dioxide	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	596

PM, SO<sub>2</sub> and NO<sub>x</sub> corrected to 10% oxygen

**Dr. Subba Reddy Mallampati**  
Group Leader- Environment

## Coal Mill Stack

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KARNATAKA.**

Report Number : VLL/VLS/18/11824/002  
Issued Date : 2019-01-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.  
And Date : 2018-12-10


Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL**

Test Required : Particulate Matter  
Sample Collected date : 2018/12/29  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	68
Velocity	m/sec	IS:11255 PART (III)	13.2
Flow	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	23.127
Moisture Content, V/V	%	IS:11255 PART (III)	1.5
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	9.6

  
**Dr. Subba Reddy Mallampati**  
Group Leader- Environment

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**SHREE CEMENT LIMITED  
(UNIT KARNATAKA CEMENT PROJECT)  
VILLAGE KODLA,  
TALUKA SEDAM KALABURAGI,  
KARNATAKA.**

Report Number : VLL/VLS/18/11011/03  
Issued Date : 2019-02-02  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-  
4188/Amd-1.  
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil  
Designation : Sr. Engineer-Environment


Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL**

Test Required : Particulate Matter  
Sample Collected date : 2019/01/31  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	81
Velocity	m/sec	IS:11255 PART (III)	14.9
Flow	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	24.65
Moisture Content, V/V	%	IS:11255 PART (III)	2.12
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	13.7

  
**Dr. Subba Reddy Mallampati**  
Group Leader- Environment

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**SHREE CEMENT LIMITED**  
**(UNIT KARNATAKA CEMENT PROJECT)**  
**VILLAGE KODLA,**  
**TALUKA SEDAM KALABURAGI,**  
**KARNATAKA.**

Report Number : VLL/VLS/18/11231/02  
Issued Date : 2019-03-11  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.  
And Date : 2018-12-10

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL**

Test Required : Particulate Matter  
Sample Collected date : 2019/02/27  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	71
Velocity	m/sec	IS:11255 PART (III)	11.7
Flow	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	21.654
Moisture Content, V/V	%	IS:11255 PART (III)	1.4
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	7.6

**Dr. Subba Reddy Mallampati**  
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Report Number : VLL/VLS/18/16018/03  
Issued Date : 2019-04-12  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.  
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil  
Designation : Sr. Engineer-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL**

Test Required : Particulate Matter  
Sample Collected date : 2019/03/29  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m <sup>2</sup>	-	2.01
Flue Gas Temperature	°C	-	78
Velocity	m/sec	IS:11255 PART (III)	14.4
Flow	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	24.48
Moisture Content, V/V	%	IS:11255 PART (III)	1.67
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	11.4

**Dr. Subba Reddy Mallampati**  
Group Leader- Environment



## Cooler Stack

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Report Number : VLL/VLS/18/11824/003  
Issued Date : 2019-01-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-  
4188/Amd-1.  
And Date : 2018-12-10

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**SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER**

Test Required : Particulate Matter  
Sample Collected date : 2018/12/29  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	245
Velocity	m/sec	IS:11255 PART (III)	21.48
Flow	Nm <sup>3</sup> /sec	IS:11255 PART (III)	177.16
Moisture Content, V/V	%	IS:11255 PART (III)	3.2
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	6.3

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And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil  
Designation : Sr. Engineer-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER**

Test Required : Particulate Matter  
Sample Collected date : 2019/01/31  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	249
Velocity	m/sec	IS:11255 PART (III)	18.62
Flow	Nm <sup>3</sup> /sec	IS:11255 PART (III)	152.89
Moisture Content, V/V	%	IS:11255 PART (III)	2.7
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	8.9

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Issued Date : 2019-03-11  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.  
And Date : 2018-12-10

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER**

Test Required : Particulate Matter  
Sample Collected date : 2019/02/28  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	259
Velocity	m/sec	IS:11255 PART (III)	19.4
Flow	Nm <sup>3</sup> /sec	IS:11255 PART (III)	166.8
Moisture Content, V/V	%	IS:11255 PART (III)	3.9
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	7.3

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Issued Date : 2019-04-12  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188/Amd-1.  
And Date : 2018-12-10

Kind Attn. : Mr. J. Sunil  
Designation : Sr. Engineer-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER**

Test Required : Particulate Matter  
Sample Collected date : 2019/03/29  
SAMPLE COLLECTED BY VIMTA LABS LTD.

**TEST REPORT**

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.3
Area of stack	m <sup>2</sup>	-	14.52
Flue Gas Temperature	°C	-	257
Velocity	m/sec	IS:11255 PART (III)	19.03
Flow	Nm <sup>3</sup> /sec	IS:11255 PART (III)	153.85
Moisture Content, V/V	%	IS:11255 PART (III)	2.9
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	5.4

**Dr. Subba Reddy Mallampati**  
**Group Leader- Environment**

**Ground water level Report****Annexure-IV**

Sr. No.	Year-2018	Location	
		Piezometer towards Plant boundary near main gate	Piezometer near Plant and mine boundary
1	October	41.8	54.3
2	November	42.5	55.7
3	December	44.1	55.1
4	January	42.8	54.2
5	February	43.1	54.8
6	March	43.9	55.2

November-2018

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Report Number : VLL/VLS/18/10006/004  
Issued Date : 2018-12-04  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4188.  
And Date : 2018-06-15

Page 1 of 2

**SAMPLE PARTICULARS : GROUND WATER QUALITY**

Sample Registration Date	: 2018-11-23	Sampling Date	: 2018-11-22
Analysis Starting Date	: 2018-11-23	Analysis Completion Date	: 2018-12-03
Sample Details	: W1: Near 360 Survey Land / 92 Seater Area; W2: Permanent Town Ship west Boundary wall; W3: Permanent Town Ship east Boundary wall; W4: Sand Plant Back Side;		

SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**

S.No	Parameters	Unit	IS: 10500 Limits	W1	W2	W3	W4
1	pH	-	6.5 – 8.5(NR)	7.23	7.52	7.14	6.89
2	TSS	mg/l	--	<1.0	<1.0	<1.0	<1.0
3	TDS	mg/l	500(2000)	628	438	518	396
4	Total Hardness as CaCO <sub>3</sub>	mg/l	200(600)	378.3	261.7	318.4	129.7
5	Total Alkalinity	mg/l	200(600)	318	213	248	231
6	Calcium as Ca	mg/l	75(200)	81.6	64.3	78.6	32.3
7	Magnesium as Mg	mg/l	30(100)	42.3	24.6	29.7	12.4
8	Chlorides as Cl	mg/l	250(1000)	56.7	68.4	87.8	38.6
9	Sulphates as SO <sub>4</sub>	mg/l	200(400)	74.6	25.7	41.3	16.6
10	Fluorides as F	mg/l	1.0(1.5)	1.1	0.9	0.8	1.0
11	Nitrates as NO <sub>3</sub>	mg/l	45(NR)	18.6	12.5	10.7	13.1
12	Arsenic as As	mg/l	0.01(0.05)	<0.01	<0.01	<0.01	<0.01
13	Manganese as Mn	mg/l	0.1 (0.3)	<0.01	<0.01	<0.01	<0.01
14	Iron as Fe	mg/l	0.3(NR)	0.08	0.03	0.09	0.06
15	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001

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And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL  
Designation : Sr. Engineer-Environment

Page 2 of 2

**SAMPLE PARTICULARS : GROUND WATER QUALITY**

Sample Registration Date : 2018-11-23 Sampling Date : 2018-11-22  
Analysis Starting Date : 2018-11-23 Analysis Completion Date : 2018-12-03  
Sample Details : W5: Permanent Township Near canteen side;  
W6: Bricks plant Back Side Near Security Tower;  
W7: Back Side Of Bricks Plant; and  
W8: Bricks plant Near tanker Filling.

SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**

S.No	Parameters	Unit	IS: 10500 Limits	W5	W6	W7	W8
1	pH	-	6.5 – 8.5(NR)	7.46	7.46	7.9	7.59
2	TSS	mg/l	--	<1.0	<1.0	<1.0	<1.0
3	TDS	mg/l	500(2000)	535	329	627	71
4	Total Hardness as CaCO <sub>3</sub>	mg/l	200(600)	169.4	247.5	143.8	23.5
5	Total Alkalinity	mg/l	200(600)	164	231	230	17.8
6	Calcium as Ca	mg/l	75(200)	43.5	54.7	46.4	3.7
7	Magnesium as Mg	mg/l	30(100)	21.8	18.9	26.6	2.3
8	Chlorides as Cl	mg/l	250(1000)	174.2	34.1	149.7	26.4
9	Sulphates as SO <sub>4</sub>	mg/l	200(400)	54.7	38.7	72.4	4.8
10	Fluorides as F	mg/l	1.0(1.5)	1.1	1.3	0.8	1.1
11	Nitrates as NO <sub>3</sub>	mg/l	45(NR)	19.7	2.7	0.6	2.9
12	Arsenic as As	mg/l	0.01(0.05)	<0.01	<0.01	<0.01	<0.01
13	Manganese as Mn	mg/l	0.1 (0.3)	<0.01	<0.01	<0.01	<0.01
14	Iron as Fe	mg/l	0.3(NR)	0.06	0.02	0.06	0.01
15	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001

**Dr. Subba Reddy Mallampati**  
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And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL  
Designation : Sr. Engineer-Environment

Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date	: 2019-03-30	Sampling Date	: 2019-03-29
Analysis Starting Date	: 2019-04-01	Analysis Completion Date	: 2019-04-12

SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**

S.No	Parameters	Unit	STP Outlet @ Canteen	STPOutlet @ 92 Seater at Plant
1	pH	-	7.46	7.31
2	Total Suspended Solids	mg/l	26	15
3	Total Dissolved Solids	mg/l	1356	1156
4	Dissolved oxygen	mg/l	5.2	3.8
5	Chemical Oxygen Demand	mg/l	92	86
5	Biological Oxygen Demand	mg/l	20	15
6	Fecal Coliform	mg/l	2.9 x 10 <sup>4</sup>	2.2 x 10 <sup>4</sup>
7	Ammonical Nitrogen as NH <sub>3</sub>	mg/l	16.9	18.5
8	Total Nitrogen as N	mg/l	25.8	23.7
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	456.4	425.1
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0

  
Dr. SubbaReddy Mallampati  
Group Leader-Environment



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Issued Date : 2019-01-05  
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And Date : 2018-06-15

Kind Attn. : Mr. J. SUNIL  
Designation : Sr. Engineer-Environment


Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT NOISE MONITORING**

Sample Registration Date : 2018-12-31      Sampling Date : 2018-12-28 & 2018-12-29  
Test Required : L10, L50, L90, Leq, Lday, Lnight & Ldn.  
SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**

S.No.	Location Details	L10	L50	L90	Leq	Lday	Lnight	Ldn
1	Near Switch Yard-1	52.7	48.8	45.1	49.8	50.6	46.9	54.1
2	Near east side plant & mine boundary	50.2	46.3	42.9	47.2	48.3	44.5	51.7
3	Near Crusher	62.7	58.8	55.4	59.7	60.8	57.0	64.2
4	Near Cement Mill	60.9	57.0	53.6	57.9	59.0	55.2	62.4
5	Near CCR Building	57.9	54.0	50.6	54.9	56.0	52.2	59.4

  
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