



# SHREE CEMENT LTD.

(Unit : Karnataka Cement Project)

An ISO 9001,14001,50001 & OHS 18001 Certified Company  
Village Benkanhalli and Kodla, Post : KODLA - 585 222  
Post Box No. 01, Tq. Sedam, Dist. Kalaburagi. Karnataka  
CIN No. : L26943RJ 1979PLC001935, Website : www.shreecement.com

SCL /KCP /EC/2021-22/ 189

Date: 11.05.2021

The Additional Principal Chief Conservator of Forest (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office ( Southern Zone)  
Kendariya Sadan, IVth Floor, E&F Wings,  
17th Main Road, IIInd block,  
Koramangala, Bangalore-560034.

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 EC conditions from October- 2020 to March- 2021.

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

## Compliance Status of Environment Clearance

**EC letter no. J-11011/458/2008-IA-II (I) dated 19th Sept. 2012 and amendment on 9th Feb. 2018  
October- 2020 to March - 2021**

### 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.	Rehabilitation and Resettlement Plan is not applicable in plant and mine lease area. The acquisition was done as per the "Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
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> .	<p>Emission level for gaseous and particulate matter from the units of raw mill &amp; kiln, coal mill, cement mill and clinker cooler are maintained well within the new emission norms (PM – 30 mg/Nm<sup>3</sup>, SO<sub>2</sub> - 100 mg/Nm<sup>3</sup>, NO<sub>x</sub> – 600 mg/Nm<sup>3</sup>) prescribed by the KSPCB and MoEF&amp;CC.</p> <p>Third party stack emission monitoring reports of following stacks are attached herewith as <b><u>Annexure-I:</u></b></p> <ul style="list-style-type: none"> <li>❖ Raw Mill &amp; Kiln</li> <li>❖ Clinker Cooler</li> <li>❖ Coal Mill</li> <li>❖ Cement Mill</li> </ul>
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 Systems (CEMS) are installed for online monitoring of SO<sub>2</sub> and NO<sub>x</sub> at Raw Mill &amp; Kiln stack.</li> <li>• Opacity meters are installed for continuous online monitoring of PM at the stacks of Raw mill &amp; Kiln, Clinker Cooler, Cement mill and Coal mill.</li> <li>• Interlocking facility is provided in all pollution control equipment.</li> <li>• Photographs of Installed CEMS at the stack of Raw mill &amp; Kiln, Clinker Cooler, Cement mill and Coal mill are attached as <b><u>Annexure-II.</u></b></li> </ul>
iv	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	<ul style="list-style-type: none"> <li>• Ambient Air Quality levels of Particulate Matter (PM<sub>2.5</sub> &amp; PM<sub>10</sub>), SO<sub>2</sub> and NO<sub>x</sub> are being monitored on regular basis and data is being submitted to the Regional</li> </ul>

	<p>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>	<p>office, MoEF&amp;CC - Bangalore, Karnataka State Pollution Control Board and Central Pollution Control Board.</p> <ul style="list-style-type: none"> <li>• There is no industrial waste water generation from plant and there is no discharge of waste water outside the plant premises. However, waste water generated from the plant i.e. RO reject water is being utilised in mill spray/ dust suppression.</li> <li>• The domestic wastewater generated from office toilets, canteen, guest house etc. is being treated in the STP having capacities 25 KLD &amp; 50 KLD. Treated waste water is being used in the greenbelt &amp; plantation development.</li> <li>• Monitored data is being regularly uploaded on the company website and also displayed at the main gate of the plant.</li> <li>• Monitoring report from NABL certified laboratory &amp; SCL lab analysis reports and Photograph of the display board are enclosed as <b>Annexure-III</b>.</li> </ul>
v	<p>The Company shall install low NOx burner with Kiln/ calciner for control of NOx emissions.</p>	<p>Low NOx burner has been installed for feed stock burning along with kiln for low NOx formation. Also, de-NOx system, which is designed and supplied by FLS has been installed to keep the NOx emissions within prescribed limit of 600 mg/Nm<sup>3</sup>. The photograph of low NOx burner is enclosed as <b>Annexure-IV</b>.</p>
vi	<p>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.</p>	<p>Guidelines / Code of Practice issued by the CPCB for fugitive emissions control is being followed.</p> <ul style="list-style-type: none"> <li>• For the control of fugitive emissions, Bag filters has been installed at all material transfer points, silos tops, silos extraction, loading and unloading hoppers.</li> <li>• Closed containers and bulkers are being deployed for fly ash transportation and material transportation in tarpaulin covered trucks.</li> <li>• All vehicle movement area is concreted. Silos are used for the storage of clinker and fly ash.</li> </ul>

		<ul style="list-style-type: none"> <li>• Covered Conveyor belts are provided for transportation of Limestone, Coal, Slag, Gypsum etc.</li> <li>• Storage of raw material i.e. limestone, Laterite, slag, gypsum, pond ash and coal done in covered shed.</li> <li>• Vacuum Sweeping Machines are being used for better housekeeping and regular water sprinkling wherever required is being done to control the fugitive emissions.</li> </ul> <p>The photographs of closed conveyor, bag filter, bulker, covered truck, storage silos ect. are enclosed as <b>Annexure-V</b>.</p> <ul style="list-style-type: none"> <li>• Greenbelt &amp; Plantation is being developed for further reduce of fugitive emissions. Plantation photographs are enclosed as <b>Annexure-VI</b>.</li> <li>• Fugitive emissions are being monitored and maintained within limits. Fugitive Emission monitoring data is enclosed as <b>Annexure-VII</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.	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 are being followed and the emission levels are maintained well within the prescribed limits. Detailed report along with test results enclosed as <b>Annexure-III</b> .



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.	<p>Following measures are being taken to mitigate the impact of transport of the raw materials and end products on the surrounding environment including agricultural land:</p> <ul style="list-style-type: none"> <li>• All the materials i.e., limestone, coal, clinker, slag are being transported through covered conveyor belts.</li> <li>• All the material transfer points, silos tops, silos extraction, loading and unloading hoppers are equipped with bag filters.</li> <li>• Fly ash is being transported in closed trucks and bulkers. Cement, clinker and other raw materials are being transported in covered trucks.</li> <li>• Pneumatic system is being used for unloading of fly ash and transported in closed trucks &amp; bulkers.</li> <li>• All the material transportation are not being overloaded and being maintained under the limit of truck loading capacity.</li> <li>• Vehicular emissions are being regularly monitored and only PUC Certified vehicles are allowed inside the plant premises and used for transportation.</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 Pozzolona 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 &amp; solvents</li> <li>• Spent solvents</li> <li>• Process Waste</li> <li>• Chemical Sludge</li> <li>• Paint flakes</li> <li>• Rubber hoses</li> <li>• Grease</li> <li>• Oily sludge</li> </ul>
xi	Rainwater harvesting measures shall be adopted for the augmentation of ground water at cement plant, colony including check dams at mine site. The	Rain water recharge measures such as construction of check dams, recharge structures, roof top harvesting etc. are being developed in and around the plant site.

	<p>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>Following rain water harvesting measures are developed at site:</p> <ul style="list-style-type: none"> <li>• A pit of 5 Lac litre water capacity in mines area is 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>• Collected rain water is being utilized for operation of cement plant and balance water is being sourced from ground.</li> <li>• Recharge structures are being developed at withdrawal wells.</li> </ul> <p>The photographs of rain water harvesting structures are enclosed as <b>Annexure-VIII</b>.</p>
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 requirement of the integrated cement plant and limestone mine are well within the mentioned quantity and not being exceeded more than 2000 m<sup>3</sup>/day. The water stored in mines and plant rain water harvesting pond is being used upto the maximum extent. The waste water also utilized to reduce the fresh water requirement is as below :</p> <ul style="list-style-type: none"> <li>• RO reject water is being used for mill spray/ dust suppression.</li> <li>• Domestic waste water generated from office toilets, canteen and guesthouse are being treated in STP and treated water utilised in greenbelt development &amp; plantation within the plant premises.</li> <li>• The waste water from mines workshop is being be used for dust suppression after removal of oil and grease.</li> </ul>
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>The top soil generated is being utilized in plantation and greenbelt development simultaneously. If, generated topsoil is not utilized simultaneously, same is being stacked separately with proper slope at earmarked site till the further utilization. This staked topsoil will be further 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</p>	<p>There is no perianal natural water body passing through the plant and mine area.</p>

	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.	However, the runoff generated during rainy season is being collected in rain water sumps and utilised within the site to reduce the fresh water requirement of the project.
xv.	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 meach 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 & Forests and its Regional Office, Bangalore on six monthly basis.	<p>As per Mining Plan no inter burden waste is generated.</p> <p>Only overburden of black cotton soil which is available at the surface having average thickness of 1.8 mtrs is being stocked separately as per the provisions of approved mining plan.</p> <p>Since the overburden dumps are still in active stage vegetation will be started after maturity of dump yard.</p>
xvi.	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>Same will be complied, as per the provisions made in the approved mining plan, at the conceptual stage the total excavated area will be 494.17 ha, out of which 334.34 ha area will be converted into water reservoir.</p> <p>The slope of higher benches will be made gentler for easy accessibility by local people to use the water body and peripheral fencing will be carried out along the excavated area.</p> <p>Out of total excavated area, 159.83 ha area will be backfilled by waste generated and plantation will be done to stabilize the slopes and 11.17 ha Greenbelt/Plantation is being carried out on virgin area along the mining lease boundary.</p> <p>Currently the rain water collected in rain water harvesting sumps and same are fenced pperipheral to avoid any accident.</p>
xvii.	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	Mine working is in progress and ultimate depth has not yet reached. Construction of siltation pond and catch drains is under progress for the working pit, inter burden

	for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted, particularly after monsoon and maintained properly.	and mineral dumps to arrest flow of silt and sediment.
xviii.	Garland drain of appropriate size, gradient and length shall be 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.	Garland drain prepared and maintained as per approved mining plan. Construction of siltation pond for dumps is under progress.
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.	Retaining walls made up of at the toe of inter burden dumps and inter burden benches. Retaining walls made up of Cement Concrete having the dimensions each 60 m in length and 5 m height at both side of crusher ramp slope.
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.	<p>Regular monthly ground water level monitoring and six monthly water quality monitoring are being carried out by NABL certified lab is enclosed as <b>Annexure-IX</b>.</p> <ul style="list-style-type: none"> <li>Two piezometers are installed at plant site and recorded water level data is being sent to MOEFCC, New Delhi, Regional Office, MOEFCC, Bengaluru, Central Ground Water Authority and State Ground Water Board annually.</li> </ul> <p>Photographs of Installed piezometers is enclosed as <b>Annexure-X</b>.</p>
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 and controlled blasting are being practiced. Control blasting is being carried out with Nonel system (Shock tube) of initiation. Muffle blasting is being done where more control (in terms of fly rock) is required.</li> <li>During blasting, dust collectors are being used to control air emissions.</li> <li>Blast Vibration Monitoring is done after</li> </ul>

		every Blast by Micromate (Instantel) and result of Vibrations are within the permissible limit.
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>As per the approved mining plan, bench height of 12 m, width of 18 m and slope for individual bench of 45° are being maintained.</li> <li>Plantation will be done to stabilize the slope before abandonment.</li> <li>Excavation of mine pit is under progress, which will be used to harvest rain water. Fencing around the same will be done when limestone exploration will be stopped from the pit.</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.	Mine closure plan along with action plan for the mining, management of over burden (removal, storage, disposal etc.), reclamation of the mined out area will be submitted to MoEF&CC and its RO office at conceptual stage.
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>Out of total plant area of 173.32 ha, about 42762 sapling have been planted in 29.91 Ha (17.26 %) in the plant area. 33% green belt is being/ will be completed in phase wise manner by year 2013-24 in plant area.</li> <li>The total mining lease area is 517.61 ha. At conceptual stage, 33% of the total mine lease area i.e. 171 ha. 11.17 ha on virgin area along ML boundary plantation work is being carried out &amp; 159.83 ha on backfilled area will be developed as Green belt/plantation along with Re-grassification. About 30768.75 sapling under greenbelt and plantation have been done on 12.30 Ha.</li> </ul>
xxv.	All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) for the cement plants shall be strictly followed.	We are strictly complying all the recommendations of the Corporate Responsibility or Environmental Protection (CREP) for the cement plants, details are enclosed as <b>Annexure-XI</b> .
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.	<p>Company has well laid down Corporate Environment Policy the details are enclosed as <b>Annexure-XII</b>.</p> <p>Hierarchy Organizational Structure for ensuring adherence to the policy and compliance with environmental clearance, environmental laws and regulations is enclosed as Annexure-XII.</p>

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.	Noted & Complying.  Vehicular emissions are being kept under control and only PUC certified vehicles are being allowed inside the premises of integrated cement plant and limestone mines.
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.	Noted & Complied, Risk and Disaster Management Plan has been prepared and 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.	Noted, final Mine Closure Plan along with details of Corpus Fund will submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure, for approval.
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 Bangalore.	SCL is being Complied with the commitments made during public hearing. Shree Cement Ltd. is continuously doing CSR activities in nearby villages.  The company has spent Rs. 236.11 lakhs in last 4 years under various heads i.e. Education Promotion Programme, Infrastructure Development, Health & Family Welfare Programme, Drinking Water Supply and Sustainable Programme.
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.	SCL is being Complied with the commitments made during public hearing.  Shree Cement Ltd. is continuously doing various activities under CSR in nearby villages. The company is doing CSR activities under various heads i.e. Education Promotion Programme, Infrastructure Development, Health & Family Welfare Programme, Drinking Water Supply and Sustainable Programme.

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	Provision was made for the housing of construction labour within the site with all necessary infrastructure and facilities. Housing, toilets with soak pits & septic tank, safe drinking water, medical healthcare etc. have been provided to construction labors.
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**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.	Noted and complying all recommendations of Karnataka State Pollution Control Board (KSPCB) and State Government are being 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 Ministry including its Regional Office and SPCB / CPCB once in six months.	Four continuous ambient air quality monitoring stations has been established at the boundary of plant and mines for the measurement of PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> .  Data on ambient air quality and stack emissions of cement mill are being submitted to the MoEFCC including its Regional Office and SPCB/ CPCB on regular basis.
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.	No effluent is being generated from cement manufacturing process. RO reject water is being utilised in mill spray/ dust suppression. The wastewater generated from domestic purpose is being treated in the STP and treated waste water is used in the green belt development.  Analysis of STP treated water is enclosed as Annexure-III.

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- XIII</b>.</li> </ul>
vi	Proper housekeeping and adequate occupational health programmes shall be taken up. Occupational Health 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.	<p>Proper housekeeping of the entire plant area is being maintained by regular vacuum sweeping.</p> <p>Occupational health programmes are being organized on a regular basis and records are maintained.</p> <p>Pre-employment and periodical medical examination of all the employees is being carried out.</p>
vii.	The company shall undertake eco-development measures including community welfare measures in the project area.	Noted and Complying, 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.	Noted and Complying, 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.	Noted and Complying, 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	Noted and Complying, adequate funds are available for implementation of the conditions



	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.	stipulated by the Ministry of Environment Forests and Climate Change as well as the State Government.
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.	Noted and Complying.  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.	Noted and Complying.  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) are 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.	Noted and Complied. We have informed the MoEF&CC Head office, Delhi & 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.  We have also informed the DGMS, IBM, Dy. Commissioner (Gulbarga) regarding date of opening of captive mine on 5.12.2016.
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.	Noted.

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.	<p>Noted and Complying.</p> <ul style="list-style-type: none"> <li>• Acoustic enclosure have been provided at high noise area.</li> <li>• Timely maintenance including lubrication of machines is being done.</li> <li>• Plantation is being carried out all around the plant boundary.</li> <li>• Personnel protective equipment (PPEs) are being provided.</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.	<p>Noted and Complying.</p> <p>No industrial waste is being generated from cement plant except used oil, which is being stored in covered shed with concreted floor and sold to CPCB authorized recycler.</p> <p>Oil and grease trap has been constructed in workshop and after removal of oil and grease water is being used in crusher for dust suppression.</p>
xvii.	Personnel working in dusty areas shall wear protective respiratory devices and 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.	<p>Noted and Complying.</p> <ul style="list-style-type: none"> <li>• Personnel protective equipment such as Safety helmet, ear muffs, gloves, dust masks etc. are being provided to all.</li> <li>• Adequate training and information on safety and health aspects is being provided to all workers/ employees.</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.	<p>Noted and Complied.</p> <p>The MoEF&amp;CC Head office, Delhi, Regional office Bangalore and KSPCB Bangalore have been informed on 04.05.2017 regarding date of start of construction activities and on</p>

		<p>03.12.2016 regarding development work (industry).</p> <p>The DGMS, IBM, Dy. Commissioner (Gulbarga) has been informed on 05.12.2016 regarding date of opening of captive mine.</p>
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.	<p>Noted and Complied.</p> <p>Copy of clearance letter was provided/ submitted to Panchayat and the Local NGO on 04.10.2012. EC letter has been put on our web site:- <a href="http://www.shreecement.com">www.shreecement.com</a></p>
xx.	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 put up on the website of the Company by the proponent.	<p>Noted and Complied.</p> <p>Copy of clearance letter was provided/ submitted to Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO on 04.10.2012. Copy of environment clearance letter has been submitted to Panchayat, Zila Parishad. EC letter has been put on our web site:- <a href="http://www.shreecement.com">www.shreecement.com</a></p>
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 Karnataka State Pollution Control Board and also at web site of the Ministry of Environment and Forests at "http://envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of this Ministry.	<p>Noted and Complied.</p> <p>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 of newspapers add is enclosed as <b>Annexure-XIV</b>.</p>
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	<p>Noted and Complying.</p> <p>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.</p>

	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.	The status of compliance of EC conditions is sent to the respective regional Office of the MoEF&CC and is put on the website of the Company.
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**Annexure-I**  
**M/s Vimta Lab Limited Stack Analysis Reports**  
**Cement Mill Stack**

**Vimta Labs Limited**

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**ISSUED TO:**

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

Report Number : VLL/VLS/20/07250/003  
Issued Date : 2020-11-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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 : 2020-10-31  
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	-	79
Velocity	m/sec	IS:11255 PART (III)	7.9
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	80.7
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	26.9

**Dr. SubbaReddy Mallampati**  
**Group Leader- Environment**

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**ISSUED TO:**

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

Report Number : VLL/VLS/20/07546/003  
Issued Date : 2020-12-09  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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 : 2020-11-09  
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	-	72
Velocity	m/sec	IS:11255 PART (III)	7.1
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	76.8
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	13.7

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**TALUKA SEDAM KALABURAGI,**  
**KARNATAKA.**

Report Number : VLL/VLS/20/09358/001  
Issued Date : 2020-12-31  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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 : 2020-12-07  
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>	-	12.56
Flue Gas Temperature	°C	-	74
Velocity	m/sec	IS:11255 PART (III)	7.2
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	76.9
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	21.1

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

Report Number : VLL/VLS/20/10666/004  
Issued Date : 2021-01-19  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Environment

Page 1 of 1

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

Test Required : Particulate Matter  
Sample Collected date : 2021-01-12  
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	-	68
Velocity	m/sec	IS:11255 PART (III)	8.0
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	86.8
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	13.4

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**ISSUED TO:**

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VILLAGE KODLA,  
TALUKA SEDAM KALABURAGI,  
KARNATAKA.**

Report Number : VLL/VLS/20/11095/004  
Issued Date : 2021-03-08  
Your Ref : SCL/CC/ARC/KODLA/18-19/VO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Environment

Page 1 of 1

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

Test Required : Particulate Matter  
Sample Collected date : 2021-02-26  
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	-	65
Velocity	m/sec	IS:11255 PART (III)	6.8
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	74.4
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	16.0

  
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**ISSUED TO:**

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TALUKA SEDAM KALABURAGI,  
KARNATAKA.

Report Number : VLL/VLS/20/10055/004  
Issued Date : 2021-03-27  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Environment

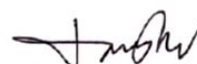
Page 1 of 1

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

Test Required : Particulate Matter  
Sample Collected date : 2021-03-12  
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	-	68
Velocity	m/sec	IS:11255 PART (III)	7.0
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	76.5
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	15.4

  
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## Raw Mill Stack

### Vimta Labs Limited

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#### ISSUED TO:

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KARNATAKA.

Report Number : VLL/VLS/20/07250/002  
Issued Date : 2020-11-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

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 : 2020-10-30  
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	-	127
Velocity	m/sec	IS:11255 PART (III)	8.61
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	153.68
Oxygen	%	Flue Gas Analyzer	6.9
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	28.7
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	564

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TALUKA SEDAM KALABURAGI,  
KARNATAKA,  
INDIA.

Report Number : VLL/VLS/20-21/07444/001  
Issued Date : 2020-12-09  
P.O. Number : SCL/CC/ARC/KODLA/18-19/WO-4932/Amd-1.  
P.O. Date : 2019-05-28/Amd 22.09.2020

Page 1 of 3

**SAMPLE PARTICULARS : SOURCE EMISSION MONITORING FOR AFR STACK ATTACHED TO RAW MILL KILN**

Sample Registration Date	: 2020-11-12	Sampling Date	: 2020-11-11
Analysis Starting Date	: 2020-11-13	Analysis Completion Date	: 2020-12-09
Sample Collected by Vimta Labs Ltd.			

**TEST REPORT**

Sr. No	Parameters	UoM	Method of Testing	Results	Limits as per MoEF & CC Notification GSR 497(E)
1	Diameter of Stack	m	--	5.6	--
2	Temperature of Flue gas	°C	--	106	--
3	Velocity	m/Sec	USEPA method -03	10.3	--
4	Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method -06	BDL	<100
5	Oxides of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method -07	558	< 800
6	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	Electro Chemical	84.3	<100
7	Particulate Matter as PM	mg/Nm <sup>3</sup>	USEPA method -5	17.5	<30.0
8	Hydrogen Fluoride as HF	mg/Nm <sup>3</sup>	USEPA method -13	0.28	<1.0
9	Hydrogen Chloride as HCl	mg/Nm <sup>3</sup>	USEPA method -26	3.0	<10
10	Total Organic Carbon	mg/Nm <sup>3</sup>	USEPA method -40 & MM5 (10)	6.4	<10
11	Volatile Organic Compounds as VOC's	mg/Nm <sup>3</sup>	USEPA method -30 & 31	BDL	--
12	Hydro Carbons	ppm	USEPA method -25A	BDL	--
13	Cyanide as CN	mg/Nm <sup>3</sup>	CTM-27	BDL	--
14	Poly Aromatic Hydrocarbon as PAH	mg/Nm <sup>3</sup>	USEPA method -23	<0.0001	--

All the Values are represented at 10% O<sub>2</sub>

**Dr. SubbaReddy Mallampati**  
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**ISSUED TO:**

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VILLAGE KODLA,  
TALUKA SEDAM KALABURAGI,  
KARNATAKA.

Report Number : VLL/VLS/20/09358/003  
Issued Date : 2020-12-31  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

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 : 2020-12-08  
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	-	117
Velocity	m/sec	IS:11255 PART (III)	8.1
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	150.14
Oxygen	%	Flue Gas Analyzer	10.2
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	16.8
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

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Report Number : VLL/VLS/20/10666/001  
Issued Date : 2021-01-19  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Env

Page 1 of 1

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

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;  
Sample Collected date : 2021-01-11  
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	-	64
Velocity	m/sec	IS:11255 PART (III)	8.42
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	180.8
Oxygen	%	Flue Gas Analyzer	10.4
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	9.2
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	554

PM, SO<sub>2</sub> and NO<sub>x</sub> are corrected to 10% oxygen  
Minimum Detectable Limit of for SO<sub>2</sub> – 3.4 mg/Nm<sup>3</sup>

**Dr. SubbaReddy Mallampati**  
**Group Leader- Environment**

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

Report Number : VLL/VLS/20/11095/001  
Issued Date : 2021-03-08  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Env

Page 1 of 1

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

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;  
Sample Collected date : 2021-02-26  
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	-	66
Velocity	m/sec	IS:11255 PART (III)	9.58
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	204.59
Oxygen	%	Flue Gas Analyzer	10.2
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	10.3
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	541

PM, SO<sub>2</sub> and NO<sub>x</sub> are corrected to 10% oxygen  
Minimum Detectable Limit of for SO<sub>2</sub> - 3.4 mg/Nm<sup>3</sup>

  
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**CIN : L24110TG1990PLC011977**

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**ISSUED TO:**

M/s. SHREE CEMENT LIMITED  
(UNIT KARNATAKA CEMENT PROJECT)  
VILLAGE KODLA,  
TALUKA SEDAM KALABURAGI,  
KARNATAKA.

Report Number : VLL/VLS/20/10055/001  
Issued Date : 2021-03-27  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Env

Page 1 of 1

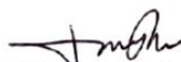
**SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN**

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;  
Sample Collected date : 2021-03-05  
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	-	68
Velocity	m/sec	IS:11255 PART (III)	9.80
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	208.08
Oxygen	%	Flue Gas Analyzer	10.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	11.2
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	538

PM, SO<sub>2</sub> and NO<sub>x</sub> are corrected to 10% oxygen  
Minimum Detectable Limit of for SO<sub>2</sub> – 3.4 mg/Nm<sup>3</sup>

  
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## Coal Mill Stack

### Vimta Labs Limited

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

Report Number : VLL/VLS/20/07250/001  
Issued Date : 2020-11-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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 : 2020-10-30  
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	-	83
Velocity	m/sec	IS:11255 PART (III)	5.8
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	9.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	25.2

  
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Report Number : VLL/VLS/20/07546/002  
Issued Date : 2020-12-09  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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 : 2020-11-09  
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	-	75
Velocity	m/sec	IS:11255 PART (III)	5.0
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	8.4
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	17.3

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**KARNATAKA.**

Report Number : VLL/VLS/20/09358/002  
Issued Date : 2020-12-31  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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 : 2020-12-07  
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	-	6.1
Velocity	m/sec	IS:11255 PART (III)	5.8
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	10.2
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	24.7

  
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**KARNATAKA.**

Report Number : VLL/VLS/20/10666/003  
Issued Date : 2021-01-19  
Your Ref : SCL/CC/ARC/KODLA/18-19/VO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Environment.

Page 1 of 1

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

Test Required : Particulate Matter  
Sample Collected date : 2021-01-12  
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	-	74
Velocity	m/sec	IS:11255 PART (III)	6.3
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	10.8
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	15.9

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KARNATAKA.**

Report Number : VLL/VLS/20/11095/003  
Issued Date : 2021-03-08  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Asst. Manager-Environment.

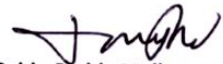
Page 1 of 1

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

Test Required : Particulate Matter  
Sample Collected date : 2021-02-27  
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	-	78
Velocity	m/sec	IS:11255 PART (III)	7.0
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	11.8
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	12.8

  
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KARNATAKA.**

Report Number : VLL/VLS/20/10055/003  
Issued Date : 2021-03-27  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Environment.

Page 1 of 1

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

Test Required : Particulate Matter  
Sample Collected date : 2021-03-06  
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	-	76
Velocity	m/sec	IS:11255 PART (III)	7.2
Volumetric Flow Rate	Nm <sup>3</sup> /Sec	IS:11255 PART (III)	12.2
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	17.7

**Dr. SubbaReddy Mallampati**  
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## Cooler Stack

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

Report Number : VLL/VLS/20/07250/004  
Issued Date : 2020-11-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/VO-4932.  
And Date : 2019-05-28

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 : 2020-10-31  
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	-	139
Velocity	m/sec	IS:11255 PART (III)	5.07
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	68.44
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	27.2

**Dr. SubbaReddy Mallampati**  
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**VILLAGE KODLA,**  
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**KARNATAKA.**

Report Number : VLL/VLS/20/07546/001  
Issued Date : 2020-12-09  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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 : 2020-11-10  
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	-	37
Velocity	m/sec	IS:11255 PART (III)	4.72
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	65.36
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	9.8

  
**Dr. SubbaReddy Mallampati**  
**Group Leader- Environment**

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Report Number : VLL/VLS/20/09358/004  
Issued Date : 2020-12-31  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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 : 2020-12-08  
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	-	142
Velocity	m/sec	IS:11255 PART (III)	6.9
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	71.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	8.31

**Dr. SubbaReddy Mallampati**  
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Report Number : VLL/VLS/20/10666/002  
Issued Date : 2021-01-19  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Environment.


Page 1 of 1

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

Test Required : Particulate Matter  
Sample Collected date : 2021/01/11  
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	-	36
Velocity	m/sec	IS:11255 PART (III)	6.79
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	93.92
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	10.1

  
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KARNATAKA.**

Report Number : VLL/VLS/20/11095/002  
Issued Date : 2021-03-08  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Environment.

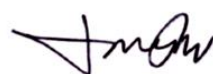
Page 1 of 1

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

Test Required : Particulate Matter  
Sample Collected date : 2021/02/26  
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	-	39
Velocity	m/sec	IS:11255 PART (III)	7.0
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	96.57
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	12.4

  
**Dr. SubbaReddy Mallampati**  
Group Leader- Environment

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**TALUKA SEDAM KALABURAGI,**  
**KARNATAKA.**

Report Number : VLL/VLS/20/10055/002  
Issued Date : 2021-03-27  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil  
Designation : Ast. Manager-Environment.

Page 1 of 1

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

Test Required : Particulate Matter  
Sample Collected date : 2021/03/06  
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	-	37
Velocity	m/sec	IS:11255 PART (III)	7.2
Volumetric Flow Rate	Nm <sup>3</sup> /sec	IS:11255 PART (III)	100.05
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 PART (I) 1985	13.7

**Dr. SubbaReddy Mallampati**  
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**CIN : L24110TG1990PLC011977**



**Annexure-II**  
**Photographs of Installed Opacity Meters & CEMS**



**Cement Mill Stack**



**Raw Mill/ Kiln Stack**



**Clinker Cooler stack**



**Coal mill stack**



Gas- CEMS analyser installed at Raw/ kiln stack

## Annexure-III

### NABL Certified Lab Report

#### STP Report:

**Vimta Labs Limited**  
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**ISSUED TO:**

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

Report Number : VLL/VLS/20/07250/006  
Issued Date : 2020-11-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

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

Page 1 of 1

**SAMPLE PARTICULARS : STP Wastewater**

Sample Registration Date	: 2020-11-02	Sampling Date	: 2020-10-31
Analysis Starting Date	: 2020-11-02	Analysis Completion Date	: 2020-11-05
Sample Collected by Vimta Labs Ltd			

#### TEST REPORT

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.35	7.49	5.5 - 9.0
2	Total Suspended Solids	mg/l	59	51	100
3	Total Dissolved Solids	mg/l	1510	1695	2100
4	Dissolved oxygen	mg/l	6.7	7.5	--
5	Chemical Oxygen Demand	mg/l	78	84	250
5	Biological Oxygen Demand	mg/l	13.6	16.6	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH3	mg/l	3.4	4.6	5
8	Total Nitrogen as N	mg/l	7.9	9.4	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	399.2	456.4	--
11	Total Residual Chlorine	mg/l	<0.2	<0.2	--
12	Oil & Grease	mg/l	<1.0	<1.0	10.0

**Dr. SubbaReddy Mallampati**  
**Group Leader-Environment**

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**SHREE CEMENT LIMITED**  
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**VILLAGE KODLA,**  
**TALUKA SEDAM KALABURAGI,**  
**KARNATAKA.**

Report Number : VLL/VLS/20/07546/005  
Issued Date : 2020-12-09  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

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

Page 1 of 1

**SAMPLE PARTICULARS : STP Wastewater**

Sample Registration Date : 2020-11-10 Sampling Date : 2020-11-09  
Analysis Starting Date : 2020-11-11 Analysis Completion Date : 2020-12-09

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.28	7.37	5.5 - 9.0
2	Total Suspended Solids	mg/l	66	57	100
3	Total Dissolved Solids	mg/l	1598	1684	2100
4	Dissolved oxygen	mg/l	7.2	7.8	--
5	Chemical Oxygen Demand	mg/l	85	89	250
5	Biological Oxygen Demand	mg/l	14.3	15.8	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH3	mg/l	3.0	4.1	5
8	Total Nitrogen as N	mg/l	6.8	8.8	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	386.1	442.6	--
11	Total Residual Chlorine	mg/l	<0.2	<0.2	--
12	Oil & Grease	mg/l	<1.0	<1.0	10.0

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**KARNATAKA.**

Report Number : VLL/VLS/20/09358/006  
Issued Date : 2020-12-31  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

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

Page 1 of 1

**SAMPLE PARTICULARS : STP Wastewater**

Sample Registration Date : 2020-12-09 Sampling Date : 2020-12-08  
Analysis Starting Date : 2020-12-10 Analysis Completion Date : 2020-12-16

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.32	7.21	5.5 - 9.0
2	Total Suspended Solids	mg/l	20	18	100
3	Total Dissolved Solids	mg/l	1530	1880	2100
4	Dissolved oxygen	mg/l	3.1	3.4	--
5	Chemical Oxygen Demand	mg/l	110	100	250
5	Biological Oxygen Demand	mg/l	16	14	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH3	mg/l	17.8	20.6	5
8	Total Nitrogen as N	mg/l	27.3	28.9	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	416.8	510.8	--
11	Total Residual Chlorine	mg/l	<0.2	<0.2	--
12	Oil & Grease	mg/l	<1.0	<1.0	10.0

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

Report Number : VLL/VLS/20/10666/006  
Issued Date : 2021-02-08  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

Kind Attn. : Mr. J. SUNIL  
Designation : Asst. Manager-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STP Wastewater**

Sample Registration Date : 2021-01-13 Sampling Date : 2021-01-12  
Analysis Starting Date : 2021-01-13 Analysis Completion Date : 2021-01-31

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.25	7.63	5.5 - 9.0
2	Total Suspended Solids	mg/l	48	56	100
3	Total Dissolved Solids	mg/l	1867	1345	2100
4	Dissolved oxygen	mg/l	4.6	3.7	--
5	Chemical Oxygen Demand	mg/l	90	88	250
5	Biological Oxygen Demand	mg/l	18.0	25	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH <sub>3</sub>	mg/l	1.8	2.1	5
8	Total Nitrogen as N	mg/l	3.1	3.3	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	413.3	512.5	--
11	Total Residual Chlorine	mg/l	<0.2	0.2	--

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VILLAGE KODLA,  
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KARNATAKA.

Report Number : VLL/VLS/20/11095/006  
Issued Date : 2021-03-08  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

Kind Attn. : Mr. J. SUNIL  
Designation : Asst. Manager-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STP Wastewater**

Sample Registration Date : 2021-02-27 Sampling Date : 2021-02-26  
Analysis Starting Date : 2021-02-27 Analysis Completion Date : 2021-03-08

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.31	7.46	5.5 - 9.0
2	Total Suspended Solids	mg/l	44	52	100
3	Total Dissolved Solids	mg/l	1851	1336	2100
4	Dissolved oxygen	mg/l	4.1	3.4	--
5	Chemical Oxygen Demand	mg/l	83	80	250
5	Biological Oxygen Demand	mg/l	16.8	20	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH <sub>3</sub>	mg/l	1.4	2.4	5
8	Total Nitrogen as N	mg/l	3.6	3.0	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	416.6	503.2	--
11	Total Residual Chlorine	mg/l	<0.2	0.1	--

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TALUKA SEDAM KALABURAGI,  
KARNATAKA.

Report Number : VLL/VLS/20/10055/006  
Issued Date : 2021-03-27  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

Kind Attn. : Mr. J. SUNIL  
Designation : Asst. Manager-Environment

Page 1 of 1

**SAMPLE PARTICULARS : STP Wastewater**

Sample Registration Date : 2021-03-15 Sampling Date : 2021-03-13  
Analysis Starting Date : 2021-03-15 Analysis Completion Date : 2021-03-27

Sample Collected by Vimta Labs Ltd

**TEST REPORT**

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.68	7.34	5.5 - 9.0
2	Total Suspended Solids	mg/l	67	49	100
3	Total Dissolved Solids	mg/l	1869	1321	2100
4	Dissolved oxygen	mg/l	4.9	3.1	--
5	Chemical Oxygen Demand	mg/l	92	74	250
5	Biological Oxygen Demand	mg/l	24.9	14.6	30
6	Fecal Coliform	MPN/100ml	<1.8	<1.8	<1000
7	Ammonical Nitrogen as NH <sub>3</sub>	mg/l	3.1	2.0	5
8	Total Nitrogen as N	mg/l	3.9	3.0	10
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	519.9	498.4	--
11	Total Residual Chlorine	mg/l	<0.2	0.1	--

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CIN : L24110TG1990PLC011977



## Sewage Treatment Plant:



## M/s Vimta Lab Limited AAQ Analysis Report:

**Vimta Labs Limited**  
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### ISSUED TO:

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

Report Number : VLL/VLS/20/07250/007  
Issued Date : 2020-11-10  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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

Page 1 of 1

### SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING

Sample Registration Date : 2020-11-02 Sampling Date : 2020-10-30 31  
Analysis Starting Date : 2020-11-02 Analysis Completion Date : 2020-11-10  
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

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.

Sr. No.	Location Details	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO $\mu\text{g}/\text{m}^3$		
						I	II	III
1	Near Switch Yard-1	36.9	53.5	15.6	16.5	256	324	331
2	Near east side plant & mine boundary	31.6	52.8	14.9	16.3	235	351	319
3	Near Crusher	34.5	62.6	13.2	15.4	225	335	325
4	Near Mines south side	32.6	54.6	13.7	15.7	214	338	315
Limits As Per NAAQS		60	100	80	80	2000		
Test Methods		Gravimetric Method		Improved West & Geake	Modified Jacob & Hochheiser Method	NDIR spectroscopy method		

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

**ISSUED TO:**

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

Report Number : VLL/VLS/20/10055/009  
Issued Date : 2021-03-27  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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

Page 1 of 1

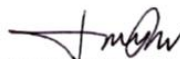
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING**

Sample Registration Date : 2021-03-15 Sampling Date : 2021-03-12 & 13  
Analysis Starting Date : 2021-03-15 Analysis Completion Date : 2021-03-27  
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**

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.

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	42.3	56.8	16.1	16.8	263	329	345
2	Near east side plant & mine boundary	40.6	55.4	15.7	16.7	244	347	324
3	Near Crusher	39.8	64.6	14.9	15.6	229	338	334
4	Near Mines south side	43.5	59.9	14.6	16.2	219	341	321
<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		

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



### SCL AAQ analysis report:

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-20	35.6	78.2	13.6	15.3
	Nov-20	32.8	80.7	14.2	16.3
	Dec-20	29.6	72.8	13.7	15.8
	Jan-21	38.8	80.72	12.3	14.8
	Feb-21	35.2	78.3	15.9	18.2
	Mar-21	28.7	74.5	15.4	16.6
AAQ-2 Near East Side Plant and Mine Boundary	Oct-20	31.7	73.9	12.7	14.8
	Nov-20	30.4	70.6	13.9	15.2
	Dec-20	32.6	74.2	13.1	15.0
	Jan-21	37.6	82.1	13.4	15.7
	Feb-21	39.4	85.7	12.6	14.9
	Mar-21	40.6	55.4	15.7	16.7
AAQ-3 Near North side Boundary wall	Oct-20	28.9	68.4	12.3	14.8
	Nov-20	30.2	70.1	13.7	15.4
	Dec-20	31.5	69.8	13.2	14.7
	Jan-21	34.3	75.6	12.1	13.3
	Feb-21	31.6	73.9	13.6	16.1
	Mar-21	32.8	72.7	13.5	15.9
AAQ-4 Near South Mine Boundary	Oct-20	27.1	65.2	13.8	15.9
	Nov-20	30.3	69.6	14.9	16.1
	Dec-20	29.5	67.9	14.2	15.3
	Jan-21	28.2	66.1	12.0	13.5
	Feb-21	26.7	65.4	12.6	14.3
	Mar-21	25.1	59.9	14.6	16.2

## Display Board at Main Gate for Displaying CEMS Data And CAAQMS:



**Annexure-IV**  
**Low NOx Burner**



**Annexure-V**  
**Photographs**

**Closed Conveyor and Bag Filter**





### Closed Bulker, Covered Truck, and Concreted Roads



### Storage Silos and Closed Shed





## Vacuum Sweeping Machines



## Annexure-VI Existing Greenbelt/ Plantation Development









**Annexure-VII**  
**SCL Fugitive Emission**

(All Values in  $\mu\text{g}/\text{m}^3$ )

<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-20	2817	3104	3458
Nov-20	3257	3256	2896
Dec-20	2589	3517	3204
Jan-21	2867	3204	3025
Feb-21	3158	3358	3159
Mar-21	2847	2759	3195

**Annexure-VIII**  
**Rain Water Harvesting Structures**

Water collected in Mines Pit (Water Storage Capacity: 5.0 Litres)



Water Harvesting Pond (Water Storage Capacity: 2.6 Lakh Litres) In Plant Area



**Annexure-IX**  
**Ground water level and Quality Report**

Sr. No.	Month	Location	
		Piezometer towards Plant boundary near main gate	Piezometer near Plant and mine boundary
1	Oct-2020	37.1	49.3
2	Nov-2020	36.6	50.8
3	Dec-2020	37.3	51.3
4	Jan-2021	38.6	49.7
5	Feb-2021	39.2	48.6
6	Mar-2021	38.7	50.4

# Ground water Quality Report

## Vimta Labs Limited

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### ISSUED TO:

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

Report Number : VLL/VLS/20/10055/007  
Issued Date : 2021-03-27  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932  
And Date : 2019-05-28

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

Page 1 of 1

### SAMPLE PARTICULARS : BOREWELL WATER

Sample Registration Date : 2021-03-15 Sampling Date : 2021-03-13  
Analysis Starting Date : 2021-03-15 Analysis Completion Date : 2021-03-27

SAMPLE COLLECTED BY VIMTA LABS LTD

### TEST REPORT

S.No	Parameters	Unit	IS: 10500 Limits	Near 360 Survey land/92 Seater area - BW1	Permanent Township East Boundary Wall - BW3	Bricks plant back side BW7	Permanent Town Ship Near Canteen Side BW5	Near Bricks plant corner Near Security Tower BW6
1	pH	-	6.5 - 8.5(NR)	7.52	7.42	7.56	7.37	7.41
2	Colour	Hazen	5(15)	3	2	2	3	2
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	5	1094	1267	1466	1177	1231
6	Turbidity	NTU	1(5)	3	2	3	3	3
7	TDS	mg/l	500(2000)	594	714	784	696	684
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200(600)	284	295	335	294	281
9	Total Alkalinity	mg/l	200(600)	261	293	295	263	269
10	Calcium as Ca	mg/l	75(200)	77.1	69.7	76.5	63.7	68.8
11	Magnesium as Mg	mg/l	30(100)	27.4	33.2	34.4	36.7	28.8
12	Residual Chlorine	mg/l	0.2(1.0)	<0.2	<0.2	<0.2	<0.2	<0.2
13	Boron as B	mg/l	0.5(1.0)	0.65	0.28	0.19	0.56	0.56
14	Chlorides as Cl	mg/l	250(1000)	154	184.3	213.5	169.8	163.2
15	Sulphates as SO <sub>4</sub>	mg/l	200(400)	76.2	89.9	123.2	72.3	72.4
16	Fluorides as F	mg/l	1.0(1.5)	0.9	0.7	0.9	0.8	0.7
17	Nitrates as NO <sub>3</sub>	mg/l	45(NR)	12.3	15.4	12.3	10.3	11.3
18	Sodium as Na	mg/l	5	113.2	126.4	168.8	129.8	120.1
19	Potassium as K	mg/l	5	9.6	10.2	13.4	15.5	13.8
20	Phenolic Compounds	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001	<0.001
21	Cyanides as CN	mg/l	0.05 (NR)	<0.02	<0.02	<0.02	<0.02	<0.02
22	Anionic Detergents	mg/l	0.2 (1.0)	<0.20	<0.20	<0.20	<0.20	<0.20
23	Mineral Oil	mg/l	0.5(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
24	Cadmium as Cd	mg/l	0.003 (NR)	<0.003	<0.003	<0.003	<0.003	<0.003
25	Arsenic as As	mg/l	0.01(0.05)	<0.01	<0.01	<0.01	<0.01	<0.01
26	Copper as Cu	mg/l	0.05 (1.5)	0.05	0.02	0.01	0.04	0.06
27	Lead as Pb	mg/l	0.01 (NR)	<0.01	<0.01	<0.01	<0.01	<0.01
28	Manganese as Mn	mg/l	0.1 (0.3)	0.06	0.04	0.02	0.05	0.04
29	Iron as Fe	mg/l	0.3(NR)	0.14	0.13	0.05	0.04	0.06
30	Total Chromium as Cr	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
31	Selenium as Se	mg/l	0.01(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
32	Zinc as Zn	mg/l	5(15)	0.14	0.24	0.04	0.12	0.14
33	Aluminum as Al	mg/l	0.03(0.2)	0.08	0.07	0.01	0.02	0.04
34	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001	<0.001
35	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent	Absent
36	E.Coli	-	Absent	Absent	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	10	Absent	Absent	Absent	Absent	Absent

Dr. Subbarreddy Mallampati  
Group Leader Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India  
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com  
CIN : L24110TG1990PLC011977

**Annexure-X**  
**Photographs of Installed Piezometers**



**Annexure-XI**  
**Environmental Protection (CREP)**

Sr. No.	CREP Condition	Action Plan
1	<p>Cement Plants which are not complying* with notified standards:</p> <ul style="list-style-type: none"> <li>• Augmentation of existing Air Pollution Control Devices - by July 2003.</li> <li>• Replacement of existing Air Pollution Control Devices - by July 2004.</li> </ul>	<p>Shree Cement Ltd. is being complying with all the Stipulated standards prescribed by MoEFCC/CPCB/KSPCB. High efficient pollution control equipment's i.e. Bag House, ESP, Bag filters etc. are designed to meet the limit of 30 mg/Nm<sup>3</sup> for particulate matter emission level.</p>
2	<p>Cement plants located in critically polluted or urban areas (including 5km distance outside urban boundary) will meet 100 mg/Nm<sup>3</sup> limit of particulars matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm<sup>3</sup>. As per Gazette Notification MoEFCC G.S.R.497(E) dated 10th May, 2016, emission standards for PM have been prescribed as 30 mg / Nm<sup>3</sup>.</p>	<p>Shree Cement Ltd. is located at a long distance from urban areas. At present emission level are well in the limits as per Karnataka State Pollution Control Board (KSPCB) i.e. &lt;30 mg/Nm<sup>3</sup> for PM concentration.</p>
3	<p>The new cement kilns to be accorded NOC/Environmental Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/ Nm<sup>3</sup> for particulate matter emissions</p>	<p>Emission level is being / will be maintained &lt;30 mg/Nm<sup>3</sup> as per new notification of MoEFCC, New Delhi.</p>
4	<p>CPCB will evolve load based standards by December 2003.</p>	<p>Shree Cement Ltd. is being/will be complying with all the Stipulated standards given by KSPCB.</p>
5	<p>CPCB and NCBM will evolve SO<sub>2</sub> and NO<sub>2</sub> emission standard by June 2004. The above referred Notification has stimulated emission standards for SO<sub>2</sub> - 100 mg / Nm<sup>3</sup> and NO<sub>x</sub> - 600 mg / Nm<sup>3</sup>.</p>	<p>Shree Cement Ltd. is being/will be complying with all the Stipulated standards given by KSPCB.</p>
6	<p>The cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendation within three months.</p>	<p>SCL is being/will be taking following measures to control Fugitive dust emission.</p> <ul style="list-style-type: none"> <li>• Silo for clinker, cement and fly ash, covered shed for gypsum, slag, coal and Petcoke storage.</li> <li>• All the material transfer points, silos tops, silos extraction, loading and unloading hoppers are equipped with bag filters</li> <li>• Water spraying system provided on raw material unloading hoppers (Lime stone, Coal, Petcoke &amp; Iron ore).</li> <li>• Concreting all movement area to</li> </ul>



		<p>avoid fugitive dust emission.</p> <ul style="list-style-type: none"> <li>• Vacuum sweeping machines are being deployed for better housekeeping.</li> </ul> <p>Water Sprinkler system located at the transfer points.</p>
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.	Petcoke is being/will be used as source of feed stock to conserve natural coal.
8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003.	<p>Opacity meters have been installed at stack of raw mill &amp; kiln, coal mill and clinker cooler and cement mill.</p> <p>Continuous Monitoring Systems (CMS) have been installed online monitoring of SO<sub>2</sub> and NO<sub>x</sub> emission at the stack of Raw mill Kiln</p>
9	Tripping in ESP to be minimized by July 2003 as per recommendation of NTF.	-
10	Industries will submit the target date to enhance the utilization of waste material by April 2003.	<p>SCL is putting efforts to continuously use waste materials:</p> <ul style="list-style-type: none"> <li>• Waste material (fly ash) from nearby Thermal Power Plants is being used in cement plant.</li> <li>• Used iron ore, waste material from steel plant, for substituting laterite requirement.</li> <li>• Slag, waste material from steel plant is being used for manufacturing of PSC cement.</li> <li>• Hazardous waste is being utilized in kiln and obtained authorization from KSPCB.</li> </ul>
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Hazardous waste will be utilized in kiln after getting permission from KSPCB.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	Waste Heat Recovery Power has been installed and expansion in the same will also be proposed.

**Annexure-XII**  
**Corporate Environment Policy and Organizational Structure**



**SHREE CEMENT LIMITED**

BANGUR NAGAR, BEAWAR, RAJASTHAN

**ENVIRONMENT POLICY**

- To ensure Clean, Green and Healthy Environment through:
  - ✓ Efficient use of natural resources, energy, plant & equipment.
  - ✓ Reduction in emissions, noise, waste and greenhouse gases.
  - ✓ Promotion to reuse and recycling wastes.
  - ✓ Continual improvement in environment management with proper systems to prevent, mitigate and control environmental impacts due to operations across the value chain and in local community.
  - ✓ Building awareness amongst all stakeholders including employees, customers, vendors etc. on environmental issues.
  - ✓ Compliance of relevant environmental legislations by implementing the Environmental Management System
  - ✓ Reporting of non-compliances (in any) of the conditions of environment clearance / consent / NOC/ authorization and permission etc relevant to the environmental conditions as and when occurs to the Whole Time Director by the respective Unit Head and Functional Head ( Environment) so as to fulfil the deviation from the compliances within the prescribed time line.

Signature \_\_\_\_\_

(P.N.Chhangani)

**Whole Time Director**

Date: 29<sup>th</sup> August, 2019

## **ENVIRONMENT MANAGEMENT SYSTEM**


### **1. LEGAL & OTHER REQUIREMENTS**

- a. We have established and maintained a procedure to identify, access and update legal and other requirements to which we subscribe, that are applicable to the environmental aspects / impacts and Occupational Health and Safety Hazards (OHS) / Risks of our products, activities and services respectively. The list of legal and other requirements applicable to our operations are maintained separately and are communicated to our stakeholders. Main legal requirements are as follows:

- ✓ Environmental acts & rules
- ✓ Mines acts & rules
- ✓ Factory acts & rules
- ✓ Boiler acts & rules

### **2. OPERATIONAL CONTROL PROCEDURES**

- a. We have identified our operations and activities that are associated with Environmental aspects and OHS risks in line with our Environmental Policy. We plan these activities, including maintenance in order to ensure they are carried out under specified conditions by:
- ✓ Establishing and maintaining SOPs to check out the deviations from EMS.
  - ✓ These procedures define the criteria to ensure that activities are performed under specified conditions, complying to legal and other requirements also:
    - Communication of SOPs related to significant environmental aspects / OH&S risk of operations, goods, equipment and services purchased and/or used, to our stakeholders.
    - To reduce Environment Impact / OH&S Hazard with the application of SOPs considering their adaptation to the human capabilities by proper designing of work place, process and to take precaution while installation of machinery.
    - To review Control Measures and SOPs on regular intervals, effectiveness and to bring in changes that are identified & necessary to implement.

Signature   
(P.N.Chhangani)  
Whole Time Director

Date: 29<sup>th</sup> August, 2019

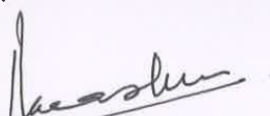
#### b. Relevant Operation Control Measures

- ✓ **Limestone mines operation-** Water sprinkling on the haulage road and at unloading point (crusher), raw material transportation by covered belt and emission control system at transfer points.
- ✓ **Clinkerization- Covered** storage of raw materials, petcoke, coal and clinker in silos, use of high efficient pollution control measures such as ESP, Bag house, bag filters at all transfer points, coved conveyors and De-NOx system etc.
- ✓ **Cement Grinding & Packing-** Bag Filters at all transfer points, storage of fly ash in silo and pneumatic Fly ash handling, automatic bag filling machines, use of tarpaulin to each truck and wagon and vacuum sweeping.
- ✓ **Storage in yard-** Covering by tarpaulin.
- ✓ **Utility operation-** Management of waste/used oil, oily wastes and industrial waste water management by 100% recycling in process to maintain ZLD and treatment of sewage water in STP to use for plantation.
- ✓ **General-** Dust control by good housekeeping & maintenance, use of dust extraction and recycling systems to remove dust from work areas, contractor activities and task observations.
- ✓ Use of proper personal protective equipment (PPE).

### 3. ROLES & RESPONSIBILITIES

We have established, implemented and maintained EMS to meet its requirements at all of our locations within the organizational boundaries. Roles and responsibilities of various personnel, who manage, perform and verify the activities and their impacts on environment and/or OH&S have been defined by the top management.

- a. Whole Time Director (WTD) -** He will review and ensure the implementation of EMS related activities as per the schedules & SOPs. He will communicate to the Board of Directors during quarterly General Meeting on all issues related to EMS and status of compliance and non-compliance (in any) of the conditions of environment clearance, consent, authorization, NOC of ground water withdrawal and surface water permission and new legislative requirements.

Signature   
(P.N.Chhangani)  
Whole Time Director


Date: 29<sup>th</sup> August, 2019

b. **Unit Heads-** They will ensure the implementation of EMS and conditions of environment clearance, consents, authorization, NOC of ground water withdrawal and surface water permission and new legislative requirements within schedule time. They will report the progress of EMS and non-compliance (in any) of the conditions of environment clearance / consent / NOC/ authorization and permission etc to the WTD and Functional Head (Environment) as and when occurs and ensure to fulfill the deviation from conditions in time bound manner.

c. **Functional Head (Environment)-** He will ensure all the compliances as per environment legislation including conditions of environment clearance, consent, authorization, NOC of ground water withdrawal and surface water permission and new legislative requirements on daily basis.

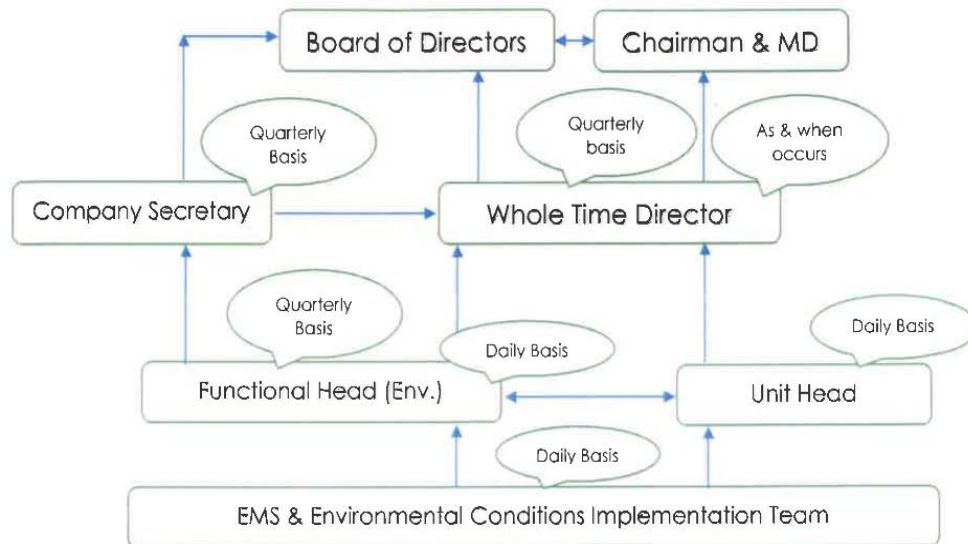
He'll discuss with respective unit head and submit the report to the WTD about the new legislative requirements and non-compliances (if any) of the conditions of environment clearance / consent / NOC/ authorization and permission etc as and when occurs and ensure implementation within the prescribed time line.

d. **EMS / Environmental Conditions Implementation Team-** It'll be comprising of multi-disciplinary professionals from all departments (civil, electrical, mechanical, Instrument, horticulture and environment) who'll prepare the action plan for implementation of conditions of environment clearance, consent, authorization, NOC of ground water withdrawal and surface water permission and new legislative requirements under the overall control and super vision of unit head.

Signature   
(P.N.Chhangani)  
Whole Time Director

Date: 29<sup>th</sup> August, 2019

## ORGANIZATIONAL STRUCTURE



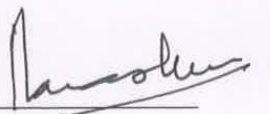
## 4. COMMUNICATION

### a. Communication with Board of Directors

WTD is responsible to communicate the issues related to EMS, new legislative requirements and non-compliances (if any) of the conditions of environment clearance / consent / NOC/ authorization and permission etc to the Chairman and MD of the company as and when occurs and quarterly to the Board of Directors.

### b. Internal Communication

It is ensured by the Chairman and MD of the company that appropriate internal communication are established and maintained within the organization. Communication is done through phone call, e-mail, sms, whatsapp, & in written etc.

Signature   
 (P.N.Chhangani)  
 Whole Time Director

Date: 29<sup>th</sup> August, 2019



**c. Participation and consultation**

- ✓ Unit head ensures consultation with the employees and workers, over changes in work place such as introduction of new & modified equipment, materials etc.
- ✓ All employees and workers are to be involved and represented in development, implementation and review of EMS policy, its objectives and decisions on implementation of SOPs to manage & control environmental aspects and OH&S risks as per the mode and nature of activity and incident / accident investigations.
- ✓ Contractors shall be consulted wherever the changes affect their OH&S.

**d. External Communication**

Functional Head (Environment) / Unit Head is responsible for receiving, documentation and respond to the communications from external parties such as MOEF&CC, SPCB, CPCB, CGWA etc to attend their concerns / suggestions and dealing with public authorities for emergency preparedness and other relevant environmental issues.

**e. List of Company Management Team**

1. Chairman: Sh. B. G. Bangur  
Address: TOWER-1-FLAT-3402-E&W SUB METER  
BURJ DUBAI DEVELOPMENT. P O BOX: 184278 DUBAI 184278  
E-Mail: GhoshP@shreecement.com  
Contact No. 033- 22309601 – 605
2. Management Director: Sh. H. M. Bangur  
Address: 34, NEW E-Mail: GhoshP@shreecement.com  
Contact No. 033- 22309601 – 605  
ROAD, ALIPORE KOLKATA 700027
3. Whole Time Director: Sh. P. N. Chhangani  
Address: Shree Cements Ltd, Bangur Nagar,  
Beawar – 305901, District - Ajmer, Rajasthan  
Contact No. Phone: (91)1462-228101-064.
4. Functional Head (Environment)  
Dr. Anil Kumar Trivedi  
[trivedianilkumar@shreecement.com](mailto:trivedianilkumar@shreecement.com)  
Contact No. 9116667498, (91)1462-228101-064.

Signature

  
(P. N. Chhangani)

Whole Time Director

Date: 29<sup>th</sup> August, 2019

**Annexure-XIII**  
**Noise Monitoring**

**SCL Noise analysis report:**

**Oct-20**

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	50.6	39.7
02.	Near east side plant & mine boundary	53.8	41.2
03.	Near CCR building	51.2	38.3
04.	Near crusher	69.6	52.7
05.	Near cement mill	70.4	52.1

**Nov-20**

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	51.8	40.7
02.	Near east side plant & mine boundary	54.2	42.5
03.	Near CCR building	53.1	37.2
04.	Near crusher	70.5	54.3
05.	Near cement mill	69.2	49.8

**Dec-20**

Sl. No.	Location	Noise Level at Day Time Limit: 75 dB (A)	Noise Level at Night Time Limit: 70 dB (A)
01.	Near Switch Yard-I	52.7	39.1
02.	Near east side plant & mine boundary	53.6	41.9
03.	Near CCR building	52.7	38.2
04.	Near crusher	69.3	53.7
05.	Near cement mill	68.9	48.5

**Jan-21**

<b>Sl. No.</b>	<b>Location</b>	<b>Noise Level at Day Time Limit: 75 dB (A)</b>	<b>Noise Level at Night Time Limit: 70 dB (A)</b>
01.	Near Switch Yard-I	49.3	33.6
02.	Near east side plant & mine boundary	51.6	42.8
03.	Near CCR building	53.4	31.8
04.	Near crusher	68.6	48.2
05.	Near cement mill	70.1	49.7

**Feb-21**

<b>Sl. No.</b>	<b>Location</b>	<b>Noise Level at Day Time Limit: 75 dB (A)</b>	<b>Noise Level at Night Time Limit: 70 dB (A)</b>
01.	Near Switch Yard-I	48.4	30.5
02.	Near east side plant & mine boundary	52.4	40.1
03.	Near CCR building	54.1	33.2
04.	Near crusher	69.3	47.1
05.	Near cement mill	68.6	48.2

**March-21**

<b>Sl. No.</b>	<b>Location</b>	<b>Noise Level at Day Time Limit: 75 dB (A)</b>	<b>Noise Level at Night Time Limit: 70 dB (A)</b>
01.	Near Switch Yard-I	50.9	45.7
02.	Near east side plant & mine boundary	52.6	48.9
03.	Near CCR building	59.8	57.7
04.	Near crusher	59.4	56.1
05.	Near cement mill	52.9	51.7

## M/s Vimta Lab Limited Noise Analysis Report:

**Vimta Labs Limited**  
Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
F : +91 40 2726 3657



**ISSUED TO:**

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

Report Number : VLL/VLS/20/07250/006  
Issued Date : 2020-11-05  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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

Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT NOISE MONITORING**

Sample Registration Date : 2020-11-02 Sampling Date : 2020-10-30 & 31  
Test Required :  $L_{10}$ ,  $L_{50}$ ,  $L_{90}$ ,  $L_{eq}$ ,  $L_{day}$ ,  $L_{night}$  &  $L_{dn}$ .  
SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**

S.No.	Location Details	$L_{10}$	$L_{50}$	$L_{90}$	$L_{eq}$	$L_{day}$	$L_{night}$	$L_{dn}$
1	Near Switch Yard-1	52.1	48.2	44.5	49.2	50.0	46.4	53.5
2	Near east side plant & mine boundary	53.7	49.8	46.1	50.8	51.6	48.0	55.1
3	Near Crusher	62.2	58.3	54.6	59.3	60.1	56.5	63.6
4	Near Cement Mill	60.7	56.8	53.1	57.8	58.6	55.0	62.1
5	Near CCR Building	56.7	52.8	49.1	53.8	54.6	51.0	58.1

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

**Vimta Labs Limited**  
Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
F : +91 40 2726 3657



**ISSUED TO:**

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

Report Number : VLL/VLS/20/10055/008  
Issued Date : 2021-03-27  
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.  
And Date : 2019-05-28

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

Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT NOISE MONITORING**

Sample Registration Date : 2021-03-08 Sampling Date : 2021-03-05 & 06

Test Required :  $L_{10}$ ,  $L_{50}$ ,  $L_{90}$ ,  $L_{eq}$ ,  $L_{day}$ ,  $L_{night}$  &  $L_{dn}$ .

SAMPLE COLLECTED BY VIMTA LABS LTD

**TEST REPORT**

S.No.	Location Details	$L_{10}$	$L_{50}$	$L_{90}$	$L_{eq}$	$L_{day}$	$L_{night}$	$L_{dn}$
1	Near Switch Yard-1	52.8	48.4	44.7	48.9	50.9	45.7	51.8
2	Near east side plant & mine boundary	53.2	50.6	46.9	51.7	52.6	48.9	55.6
3	Near Crusher	61.5	59.7	56.4	57.6	59.8	57.7	61.5
4	Near Cement Mill	61.6	57.6	55.9	58.6	59.4	56.1	60.6
5	Near CCR Building	56.4	52.0	50.7	51.8	52.9	51.7	57.6

Dr. Subba Reddy Mallampati  
Group Leader - Environment



Advertised in two local newspapers (The Hindu on 29/09/2012 and Vijay Karnataka on 30/09/2012).

[illegible]

# BRIEFLY

Association — Staff Correspondent

## Government committed to

passed the interim order on August 3 while pointing out students. The Division Bench said: as the students are guilty of wasting national resources." Advice to students: Page 7

### Urban local bodies lax in enhancing property tax collections: Ravindra

Staff Reporter

**BANGALORE:** The urban local bodies (ULBs) in the State, excluding Bruhat Bangalore Mahanagara Palike (BBMP), were being lax in increasing their property tax collections, averred A. Ravindra, advisor to Chief Minister on Urban Affairs.

Speaking at an interactive session at the Federation of Karnataka Chambers of Commerce and Industry (FKCCI) here on Friday, he said that property tax was the main source of revenue for the ULBs. While the tax collection is less, the responsibilities of the ULBs have been increasing.

"However, now with funds being sanctioned to the ULBs from the State government, the State Finance Commission and the Chief Minister's Nagarottana scheme, the pressure on ULBs has eased a bit. This has, perhaps, made them lax in taking steps to increase property tax collections by bringing more properties under the tax net," he said.

He said that excluding BBMP, the tax collected by other ULBs totalled just Rs. 275 crore. Just 18.36 per cent of the total properties have been covered under the tax net. Of the 26 lakh properties under the other ULBs, 11 lakh properties are yet to be assessed.

The BBMP has been collecting tax from 13 lakh properties, while three lakh properties were yet to be assessed, he said.

Citing examples, Mr. Ravindra said that property tax collection by Mangalore City



FKCCI president K. Shiva Shanmugam (right) greeting Adviser to the Chief Minister on Urban Affairs A. Ravindra at a meeting in Bangalore on Friday. — PHOTO: V. SREENIVASA MURTHY

Corporation was only 22 per cent. The property tax collection by the Udupi City Municipal Council, which used to be 95 per cent, had come down to 50 per cent. The tax collection by the Hubli-Dharwad and Belgaum corporations was 80 per cent.

He said that the various ULBs should effectively util-

ise the Self-assessment System and encourage citizens to pay property tax. "We cannot change the tax system now. Even if it is to be changed, it will take at least another two years for the new system to be in place. Instead, the ULBs can make tax collections more effective under the existing SAS," he added.

### Shree Cement Limited

Near Villages - Kodla & Benkanhalli, Taluka - Sedam, District - Gulbarga (Karnataka)

#### Public Notice

Public is hereby informed that Environment Clearance has been granted by the Ministry of Environment and Forest, Government of India to M/s Shree Cement Ltd. for the proposed integrated Cement Project (Clinker Production - 2.4 MMTPA, Cement Production - 4.0 MMTPA, Captive Thermal Power Plant - 44 MW) & (Captive Limestone Mine of 3.8 MMTPA, ML Area 551.36 ha), near Villages - Kodla & Benkanhalli, Taluka - Sedam, District - Gulbarga, Karnataka vide letter no. J-11011/458/2008-1A-II(I) dated 19th Sept. 2012. The copy of Environment Clearance letter is available on website of Ministry of Environment and Forest [www.envfor.nic.in](http://www.envfor.nic.in) and website of Shree Cement Ltd., [www.shreecement.in](http://www.shreecement.in)



### KARNATAKA NEERAVARI NIGAM LIMITED

(A Government of Karnataka Undertaking)  
Office of the Executive Engineer, KNNL MBC Divn,  
No. 1, Gaddankeri Camp, Bagalkot. Phone No. :  
08354-224334, e-mail : [ee.knnlbgk@gmail.com](mailto:ee.knnlbgk@gmail.com)

No. KNNL/MBC/DN-1/DB/TND/12-13/2037 Date : 25-09-2012

#### SHORT TERM PERCENTAGE TENDER NOTIFICATION (SCP WORK)

Short term Percentage tenders are invited from eligible Registered Class-I & II Civil Contractors for the following work through e-procurement portal according to standard tender document rules in prescribed form on behalf of the Managing Director KNNL, Bangalore. Details and tender documents may be downloaded from **Date 12-10-2012 to 18-10-2012** through website [www.eproc.karnataka.gov.in](http://www.eproc.karnataka.gov.in) and filled bids may be submitted through e-portal from **Date 12-10-2012 to 18-10-2012** upto 16.00 hours.

**CONDITIONS :** (1) The approximate estimated cost of work Rs. 19.95 Lakhs Work indent No. 7050. (2) The tender processing fees as per e-procurement. (3) Date of queries for tender **Date : 16-10-2012** (4) The contractors can request and tender documents may be downloaded and filled bids may be submit through e-procurement from **Date 12-10-2012 to 18-10-2012** upto 16.00 hours (5) The e-procurement tender will be opened on **Date 28-10-2012 @ 4.30 PM** in the office of the undersigned.

(6) The Contractor Registration document and EPF Registration certificate and shall be scanned attached to e-procurement tender. (7) The contractor who executed/execute cement concrete work a single work in any one year on tender basis in previous three financial years i.e. 2009-10, 2010-11 and 2011-12 (including current financial year also) for 50% of amount put to tender and work done certificate should be scanned duly signed by the not below rank of Executive Engineer (8) Corrigendum will be published in the website for all modifications/corrections if any. (9) The contractor should attach higher scanned signature to the schedule-B before submitting. (10) The officer competent to accept the tender shall have the right to reject any or all the tenders without assigning any reason whatsoever. (11) Further information can be had from the undersigned during the office hours on telephone 08354-224334 and e-procurement helpline 080-25501216/25501227

Sd/- (Sri. B. C. Karisaiyappanavar) Executive Engineer,  
KNNL MBC DN.No.1 Gaddankeri, camp.Bagalkot