



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/2020-21/ 132

Date: 02.11.2020

**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, IInd 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 19th Sept. 2012
2) Amendment in EC letter no. J-11011/458/2008-IA-II (I) dated 9th 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 April- 2020 to September- 2020.

This is for your kind information please.

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


(Arvind Kumar 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
April - 2020 to September - 2020

Specific Conditions:

S. No.	Condition	Compliance
I	Rehabilitation and Resettlement Plan for the project affected population including tribals, if applicable, shall be implemented as per the policy of the State Govt. in consultation with the State Govt. of Karnataka. Compensation paid in any case shall not be less than the norms prescribed under the National Resettlement and Rehabilitation Policy, 2007.	There is no Rehabilitation and Resettlement in plant and lease area.
ii	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the KSPCB. At no time, particulate emissions from the cement plant including kiln, coal mill, cement mill, cooler and CPP shall not exceed 50 mg/Nm ³ .	Stack emission level for PM is being maintained <30 mg/Nm ³ for stacks of Raw Mill & Kiln, Coal Mill, Cement Mill and Clinker Cooler as per the new emission norms prescribed by the MoEF&CC.
iii	Continuous on-line monitors for particulate emissions shall be installed. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	<ul style="list-style-type: none">• Continuous emission monitoring system (CEMS) has been installed for the measurement of PM, SO₂ and NO_x in Raw mill & Kiln stack.• Opacity meters have been installed for continuous monitoring of PM at the stack of Clinker Cooler, Cement mill, and Coal mill.• Interlocked provided with all pollution control measure.

iv	<p>Data on ambient air quality (PM₁₀, SO₂, NO_x) shall be regularly submitted to the Ministry including its Regional office at Bangalore and the State Pollution Control Board/Central Pollution Control Board once in six months.</p> <p>Further, quality of discharged water shall also be monitored [(TDS, DO, pH) and total Suspended solids (TSS)].</p> <p>The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain.</p>	<ul style="list-style-type: none"> • Data on ambient air quality (PM 2.5, PM₁₀, SO₂ and NO_x) level are being monitored on regular basis and data are submitted to the Ministry including its Regional Office at Bangalore and the State Pollution Control Board/Central Pollution Control Board. NABL certified lab analysis report and our lab analysis reports are attached as Annexure-1. • RO discharge is being re-used for mill spray. The wastewater generated from domestic purpose is being treated in the 25 KLD & 50 KLD capacity STP. Treated waste water is being used in the green belt development. STP treated water monitoring report enclosed as Annexure-II. • Monitored data is being uploaded on the website of the company. Monitored data is being displayed at the main gate of the company.
v	The Company shall install low NO _x burner with Kiln/ calciner for control of NO _x emissions.	Low NO _x burners have been installed with kiln & calciner for control of NO _x emissions.
vi	Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.	<ul style="list-style-type: none"> • For the control of fugitive emissions, we have installed Bag filters at all material transfer points, silos tops, silos extraction and unloading hoppers. • Only covered vehicle are deployed for cement and clinker transportation. • Closed containers and bulkers are being deployed for fly ash transportation. • All movement area is concreted. • Silos are used for the storage of clinker and fly ash. • Covered Conveyor belts provided. • The construction of closed shed for storage of raw material i.e. limestone, Laterite, slag, gypsum, pond ash and Coal is under progress. • Vacuum Sweeping Machines are being used for better housekeeping and regular water sprinkling wherever required is being done to control the

		<p>fugitive emissions.</p> <ul style="list-style-type: none"> • Plantation has been developed to further reduce any fugitive emissions. • Fugitive emissions are within limit. Emission level is enclosed as Annexure-III.
vii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	<p>The National Ambient Air Quality Emission Standards are being followed and the emission levels are maintained well within the limits. The ambient air quality monitored data are enclosed as Annexure – I.</p> <p>Stack emission monitoring report is enclosed as Annexure-IV.</p>
viii.	Measures shall be taken to mitigate impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions should be regularly monitored.	<ul style="list-style-type: none"> • All the materials i.e., limestone, coal, fly ash, clinker are transported through covered belts. All the material transfer points are equipped with bag filters. • Fly ash is being transported in closed trucks & bulkers. Cement, clinker and other raw material are being transported in covered trucks. • Vehicles with PUC shall be allowed. • Vehicle are allowed to carry the load upto permitted capacity only.
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"> • Fly ash is being utilized in making Portland Pozollona Cement (PPC). • Fly ash is being stored in fly ash silo.
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 & amendment on 23.07.2020 for co-processing of hazardous waste.</p> <p>Following waste are being co-processed in cement Kiln.</p> <ul style="list-style-type: none"> • Organic Residue • Spent Clay • Distillation residue • Process residue • Spent solvent
xi	Rainwater harvesting measures shall	<ul style="list-style-type: none"> • Rain water recharge measures such as

	<p>be adopted for the augmentation of ground water at cement plant, colony including check dams at mine site. The company must also collect rain water in the mined out pits of captive lime stone mine and use the same water for the various activities of the project to conserve fresh water and reduce the water requirement from the ground water. An action plan shall be submitted to Ministry's Regional Office at Bangalore within 3 months from date of issue of this letter. Efforts should be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.</p>	<p>construction of recharge structures, roof top harvesting etc. shall be implemented in and around the plant site.</p> <p>Following rain water harvesting measures are developed at site:</p> <ul style="list-style-type: none"> • One pit of 1.5 Lac kilo litre water capacity in mines area is developed to collect rain water. • Water conservation activities such as water harvesting by connecting all the storm water drains to water harvesting pond of capacity 2.6 lakhs Kilo liters is completed in plant premises. • Recharge structures are being developed at withdrawal wells. • All pits will be used for ground water recharge and direct use of surface water for plant & mine operation. Plan for recharging of ground water has been submitted along with EIA/ EMP reports.
xii.	<p>Total requirement shall not exceed 2,000 m³/day. The water stored in the artificial reservoir made in the mine pit shall be used maximum to reduce ground water consumption. No effluent should be discharged from the mine to any water body or nearby river.</p>	<p>Total water consumption is well within the consented capacity and will not exceed more than 2000 m³/day. The waste water from mines workshop shall be used for dust suppression after removal of oil and grease.</p>
xiii.	<p>Top soil, if any, shall be stacked with proper slope at earmarked site(s) only with adequate measures and shall be used for reclamation and rehabilitation of mined out areas.</p>	<p>Separate stacking of Top soil with proper slope at earmarked site is under process and will be used for reclamation and rehabilitation of mined out areas and plantation whenever required.</p>
xiv.	<p>The project proponent shall ensure that no natural water course shall be obstructed due to any mining and plant operations. The company shall make the plan for protection of the natural water course passing through the plant and mine area premises and submit to the Ministry's Regional Office at Bangalore.</p>	<p>There is no natural water body in plant mining area.</p>

xv.	<p>The inter burden and other waste generated shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The total height of the dumps shall not exceed 30 m in three terraces of 10 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>	<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 mining plan.</p> <p>Since the overburden dumps are still in active stage vegetation will be started after maturity of dump yard.</p>
xvi.	<p>The void left unfilled shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation to be done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.</p>	<p>Mine excavation is in progressing stage, the void unfilled shall be converted in to water body and fencing will be done after complete exploration of limestone from the pit. Slope will be utilized and plantation will be done.</p>
xvii.	<p>Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted, particularly after monsoon and maintained properly.</p>	<p>Mine working is in progress and we had not reached up to ultimate depth, catch drains are constructed all along the dumps.</p>
xviii.	<p>Garland drain of appropriate size, gradient and length shall be</p>	<p>Garland drain prepared and maintained as per mining plan.</p>

	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.	<ul style="list-style-type: none"> • 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.	Construction of retaining wall is under progress.
xx.	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central Ground Water Board. The frequency of monitoring shall be four times a year- pre-monsoon (April/ May), monsoon (August), post-monsoon (November), and winter (January). Data thus collected shall be sent at regular intervals to Ministry of Environment and Forests and its Regional Office at Bangalore, Central Ground Water Authority and Central Ground Water Board.	<ul style="list-style-type: none"> • Regular monitoring of ground water level and its quality is being carried out. The monitoring frequency is as per new CGWA guidelines Nov. 2015 to monitor monthly ground water level & quarterly water quality by NABL certified lab. Copy of the ground water level and monitoring report is enclosed as Annexure-V & Annexure-VI. • Data collected is being sent to MOEF and its Regional Office, Central Ground Water Authority and State Ground Water Board annually.
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"> • Wet drilling is being done. • Controlled Blasting technique is being implemented for blasting.

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"> Bench height, width and slope for individual bench is maintained as per approved Mining Plan. Adequate measures will be adopted to stabilize the slope before abandonment. 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.
xxiii.	Action plan for the mining, management of over burden (removal, storage, disposal etc.), reclamation of the mined out area and mine closure should be submitted to the Ministry and its Regional Office at Bangalore.	Submitted on 23/10/2012.
xxiv.	As proposed, green belt shall be developed in 33% of the plant and mine area as per the CPCB guidelines in consultation with DFO.	<ul style="list-style-type: none"> Plantation work is being carried out inside the plant premises. Sapling are planted in phase wise manner. About 39359 (26.23 Ha) saplings have been planted in the plant area. In the mine area 14472 (9.64 Ha) sapling have been planted along the boundary and Mines office. Further saplings will be planted all along the plant and mines boundary.
xxv.	All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) for the cement plants shall be strictly followed.	All CREP recommendation shall be implemented as follows.
S. No.	CREP Condition	Action Plan
1.	The new cement kiln to be accorded NOC/ Environmental Clearance w.e.f 1/4/03 will meet the limit of 50 mg/Nm ³ for particulate matter emission.	All PCM are designed to meet the limit of 30 mg/Nm ³ for particulate matter emission level.
2.	The cement industries will control fugitive emission from all raw material and product storage and transfer points by December 2003. However, the National Task Force will decide the feasibility for the control of fugitive emission from limestone and coal storage areas. The NTF shall submit its recommendations within months.	Silos are constructed to store raw materials like clinker and flyash. The construction of closed shed for storage of limestone, Laterite, slag, gypsum, pond ash and Coal is under progress. Bag filters for all material transfer points is provided to control the fugitive emission. All conveyor belts are covered. All movement area is cemented and sweeping is being done by vacuum sweeping machine.
3.	Industries will submit the target date to enhance the utilization waste material by April 2003.	Fly ash and other waste will be utilized as per the availability in cement manufacturing.

4.	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Hazardous wastes is being utilized in kiln as per the CPCB guidelines.
5.	Cement industries will carry out feasible study and submit target dates to CPCB co-generation of power by July-2003.	30 MW waste heat recovery power plant is installed for co-generation of power.
xxvi.	The company shall adopt well laid down corporate environment policy and identified and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with environmental clearance, environmental laws and regulations.	<ul style="list-style-type: none"> Corporate environment policy has been adopted and submitted on 23/10/2012. Full fledge team having expertise of environment, horticulture, emission control are being deputed to carry out day to day activities for compliance of environment condition.
xxvii.	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral.	PUC certified vehicles are allowed at the site.
xxviii.	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, KSPCB and CPCB within 3 months of issue of environment clearance letter.	Submitted along with EIA/ EMP report.
xxix.	Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure, for approval.	Final Mine Closure Plan along with details of Corpus Fund will be 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 nd March, 2012 and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bangalore.	All commitments made during the public hearing have been incorporated in CSR activities.
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	Company is engaged in various community welfare this includes education, healthcare, infrastructure, drinking water etc.is being carried out for up-liftment of the surrounding area.

	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.	During 2019-20, we have spent Rs. 4.12 crores towards CSR expenditure.
xxxii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	<ul style="list-style-type: none"> Housing, toilets with soak pits & septic tank, safe drinking water, medical healthcare etc. have been provided to construction labours. Temporary housing facility for construction labour has been constructed by the industry.

General conditions:

S. No.	Condition	Compliance
i	The project authority shall adhere to the stipulations made by Karnataka State Pollution Control Board (KSPCB) and State Government.	Yes, all recommendation of Karnataka State Pollution Control Board (KSPCB) and State Government shall be implemented.
ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Agreed. Prior permission will be taken for further expansion.
iii	At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of PM ₁₀ , SO ₂ and NO _x 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.	<p>The continuous ambient air quality monitoring stations at 4 locations has been installed.</p> <ol style="list-style-type: none"> 1. AAQMS-1 West side plant and mine boundary. 2. AAQMS-2 East side plant and mine boundary. 3. AAQMS-3 North Side boundary wall and 4. AAQMS-4 South mine boundary (Khasara No. 898). <p>Four continuous ambient air quality monitoring stations established at the boundary of plant and mines for the measurement of PM_{2.5}, PM₁₀, SO₂ and NO_x.</p>

		<p>Data on ambient air quality and stack emissions of cement mill are being submitted to the MOEF including its Regional Office and SPCB/ CPCB on regular basis.</p> <p>Presently ambient air quality monitoring is being carried out by the NABL certified laboratory on quarterly basis.</p>
iv	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	<p>No effluent is being generated from cement manufacturing process. RO reject water is being utilised in mill spray. The wastewater generated from domestic purpose is being treated in the STP and treated waste water is used in the green belt development.</p> <p>Analysis of STP treated water is enclosed as Annexure-II.</p>
v	The overall noise levels in and around the plant area shall be kept well within the standards 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dB(A) (day time) and 70 dB(A) (night time).	<ul style="list-style-type: none"> • Personnel protective equipment have been provided. Acoustic enclosures have been provided at high noise area. • Plantation is being carried out at all around the plant boundary. • 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 Annexure- VI.
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.	<ul style="list-style-type: none"> • Proper housekeeping of the entire plant area is being maintained. • Occupational health programmes are being organized on a regular basis and records are maintained. • Pre-employment and periodical medical examination of all the employees is being carried out. PPEs are provided to all the workmen and staff.

vii.	The company shall undertake eco-development measures including community welfare measures in the project area.	Plantation in and around the plant area has been started. Further, various community welfare measures including education, healthcare, infrastructure, drinking water etc. is being carried out for up-liftment of the surrounding area.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP.	Environmental protection measures and safeguards recommended in EIA/ EMP is being implemented.
ix	A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	A separate environmental management cell with full-fledged laboratory facilities has been set up to carry out various management and monitoring functions under the control of unit head.
x.	Adequate fund shall be allocated to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.	Adequate funds are available for implementation of the conditions stipulated by the Ministry of Environment Forests and Climate Change as well as the State Government.
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.	<ul style="list-style-type: none"> • Full cooperation will be extended to the officer (s) of the Regional Office of this Ministry/ CPCB/ KSPCB. • Six monthly compliance reports and the monitored data along with statistical interpretation is being submitted regularly.
xii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both on hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the KSPCB.	Six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both hard copies as well as by e-mail) is being sent to the MOEF&CC& CPCB regional Offices and the KSPCB.

xiii.	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	<ul style="list-style-type: none"> • 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 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.	<ul style="list-style-type: none"> • No change in mining technology and scope of working shall be done without prior approval of the MOEF&CC. • No change in the calendar plan including excavation, quantum of limestone and waste shall be done.
xv.	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with ear plugs/ muffs.	<ul style="list-style-type: none"> • Personnel protective equipment have been provided. Acoustic enclosure have been provided at high noise area. • Plantation is being carried out all around the plant boundary.
xvi.	Industrial waste water (workshop and waste water from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	<ul style="list-style-type: none"> • Workshop waste water is being utilized in crusher after separation of oil and grease. • Waste water generated from the mine toilet is being disposed off in soak pit via septic tank.
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.	<ul style="list-style-type: none"> • Personnel protective equipment's such as Safety helmet, ear muffs, gloves, dust masks etc. are provided to all workmen. • Adequate training and information on safety and health aspects is being regularly provided to all. • 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.
xviii.	The project authorities shall inform to the Regional Office located regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	<ul style="list-style-type: none"> • We have informed the MoEF&CC Head office, Delhi & Regional office Bangalore and KSPCB Bangalore on 04.05.2017 that the date of start the construction activities as well as land development work of project (industry) is 03.12.2016. • We have informed the DGMS, IBM, Dy. Commissioner (Gulbarga) regarding date of opening of captive mine on 5.12.2016.
xix	A copy of clearance letter shall be marked to concerned Panchayat/ local NGO, if any, from whom suggestion/representation, if any, was received while processing the proposal.	<ul style="list-style-type: none"> • Copy of environment clearance letter has been sent on 04.10.2012. • EC letter has been put on our web site:- www.shreecement.in
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.	<ul style="list-style-type: none"> • Copy of environment clearance letter has been sent on 04.10.2012. to panchayath, zillaprishath. • EC letter has been put on our web site:- www.shreecement.in
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.	Advertised in two local newspapers widely circulated in the region namely, The Hindu on 29/09/2012 and Vijay Karnataka on 30/09/2012 (copy already submitted).
xxii.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the	Environmental statement for each financial year ending 31 st March in Form-V is being submitted to the

	<p>project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the Company along with the status of compliance of EC conditions and shall also be sent to the respective regional Office of the MoEF by e-mail.</p>	<p>concerned State Pollution Control Board on 26/08/2020. The status of compliance of EC conditions is sent to the respective regional Office of the MoEF and is put on the website of the Company</p>
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SCL AAQ analysis report:
Annexure-I

Location Name	Month	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
AAQ-1 Near West Plant and Mine Boundary	Apr-20	30.1	63.8	13.6	11.4
	May-20	29.3	64.9	11.3	16.4
	Jun-20	28.6	63.8	12.7	14.8
	July-20	35.7	64.2	12.9	14.4
	Aug-20	32.4	66.1	10.9	16.3
	Sep-20	28.1	63.8	9.6	14.8
AAQ-2 Near East Side Plant and Mine Boundary	Apr-20	30.4	65.6	13.2	15.5
	May-20	27.2	63.5	12.8	14.3
	Jun-20	25.8	62.7	12.1	13.6
	July-20	28.7	64.8	10.6	12.9
	Aug-20	31.3	68.3	14.6	16.8
	Sep-20	20.6	65.8	12.9	14.3
AAQ-3 Near North side Boundary wall	Apr-20	23.5	63.1	11.9	12.7
	May-20	24.3	64.9	12.3	13.8
	Jun-20	21.7	62.8	11.9	12.3
	July-20	28.6	66.4	9.1	11.7
	Aug-20	23.2	61.7	9.9	14.1
	Sep-20	21.5	59.8	10.6	13.9
AAQ-4 Near South Mine Boundary	Apr-20	22.6	61.7	12.2	14.6
	May-20	23.5	62.3	13.4	14.1
	Jun-20	22.9	61.6	12.3	13.4
	July-20	22.4	60.6	8.9	12.6
	Aug-20	20.8	58.7	8.1	11.5
	Sep-20	19.6	57.4	9.6	12.1

M/s Vimta Lab Limited AAQ Analysis Report:

Annexure-I

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

Report Number : VLL/VLS/20/01911/003
Issued Date : 2020-06-30
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

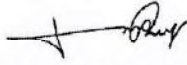
SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING

Sample Registration Date : 2020-06-19 Sampling Date : 2020-06-17
Analysis Starting Date : 2020-06-19 Analysis Completion Date : 2020-06-26
Test Required : PM_{2.5}, PM₁₀, SO₂, NO₂, and CO.
SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

Sr. No.	Location Details	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO µg/m ³		
						I	II	III
1	Near Switch Yard-1	35.2	58.6	12.8	16.5	195	377	287
2	Near east side plant & mine boundary	27.5	46.9	13.1	14.6	201	332	213
3	Near Crusher	35.6	61.2	13.4	16.2	169	298	221
4	Near Mines south side	31.8	51.9	12.2	14.8	210	317	239
Limits As Per NAAQS		60	100	80	80	2000		
Test Methods		Gravimetric Method		Improved West & Geake	Modified Jacob & Hochheiser Method	NDIR spectroscopy method		

PM_{2.5}, PM₁₀, SO₂, NO₂ is monitored on 24 hrs. Basis & CO is monitored on 8 hrs basis.


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STP Report:

Annexure-II

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Report Number : VLL/VLS/20/01911/004
Issued Date : 2020-06-30
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	: 2020-06-19	Sampling Date	: 2020-06-17
Analysis Starting Date	: 2020-06-19	Analysis Completion Date	: 2020-06-26

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ 92 Seater at Plant
1	pH	-	7.32	7.38
2	Total Suspended Solids	mg/l	28	36
3	Total Dissolved Solids	mg/l	1358	1241
4	Dissolved oxygen	mg/l	3.8	4.2
5	Chemical Oxygen Demand	mg/l	80	90
5	Biological Oxygen Demand	mg/l	16	18
6	Fecal Coliform	mg/l	1.1×10^4	1.2×10^4
7	Ammonical Nitrogen as NH ₃	mg/l	10.8	9.4
8	Total Nitrogen as N	mg/l	16.4	13.8
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	478.5	424.6
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0

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Report Number : VLL/VLS/20/03478/006
Issued Date : 2020-07-30
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 : 2020-07-23 Sampling Date : 2020-07-22
Analysis Starting Date : 2020-07-23 Analysis Completion Date : 2020-07-30

Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR
1	pH	-	7.18	7.31
2	Total Suspended Solids	mg/l	24	31
3	Total Dissolved Solids	mg/l	1318	1234
4	Dissolved oxygen	mg/l	3.7	4.5
5	Chemical Oxygen Demand	mg/l	50	80
5	Biological Oxygen Demand	mg/l	8.7	14
6	Fecal Coliform	MPN/100ml	<1.8	<1.8
7	Ammonical Nitrogen as NH ₃	mg/l	5.6	9.4
8	Total Nitrogen as N	mg/l	8.1	11.3
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	287.2	384.7
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0

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Report Number : VLL/VLS/20/04489/006
Issued Date : 2020-08-14
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And Date : 2019-05-28

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Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2020-08-05 Sampling Date : 2020-08-04
Analysis Starting Date : 2020-08-04 Analysis Completion Date : 2020-08-14

Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR
1	pH	-	6.97	7.28
2	Total Suspended Solids	mg/l	35	48
3	Total Dissolved Solids	mg/l	1487	1365
4	Dissolved oxygen	mg/l	3.6	4.3
5	Chemical Oxygen Demand	mg/l	65	70
5	Biological Oxygen Demand	mg/l	8.7	9.2
6	Fecal Coliform	MPN/100ml	<1.8	<1.8
7	Ammonical Nitrogen as NH ₃	mg/l	3.2	5.2
8	Total Nitrogen as N	mg/l	6.4	9.7
9	Sulphide as S	mg/l	<0.01	<0.01
10	Chloride as Cl	mg/l	367.4	415.2
11	Total Residual Chlorine	mg/l	<0.2	<0.2
12	Oil & Grease	mg/l	<1.0	<1.0


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Report Number : VLL/VLS/20/05587/006
Issued Date : 2020-09-18
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And Date : 2019-05-28

Kind Attn. : Mr. J. SUNIL
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Page 1 of 1


SAMPLE PARTICULARS : STP Wastewater

Sample Registration Date : 2020-09-10 Sampling Date : 2020-09-09
Analysis Starting Date : 2020-09-10 Analysis Completion Date : 2020-09-18

Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr. No.	Parameters	Unit	STP Outlet @ Canteen	STP Outlet @ CCR	CPCB Standards
1	pH	-	7.01	7.17	5.5 - 9.0
2	Total Suspended Solids	mg/l	39	44	100
3	Total Dissolved Solids	mg/l	1376	1394	2100
4	Dissolved oxygen	mg/l	4.4	4.9	--
5	Chemical Oxygen Demand	mg/l	72	76	250
5	Biological Oxygen Demand	mg/l	9.9	9.6	30
5	Fecal Coliform	MPN/100ml	<1.8	<1.8	2000
7	Ammonical Nitrogen as NH3	mg/l	4.5	5.8	50
8	Total Nitrogen as N	mg/l	7.3	10.5	100
9	Sulphide as S	mg/l	<0.01	<0.01	5
10	Chloride as Cl	mg/l	373.2	425.4	--
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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SCL Fugitive Emission: - (All Values in $\mu\text{g}/\text{m}^3$)

Annexure-III

Location Month	Packing Plant	Near Clinker Silo	Near Lime Stone Crusher
Norms	5000	5000	5000
Apr-20	2988	3010	3523
May-20	3122	3220	2998
Jun-20	2688	3520	3212
July-20	2978	3150	3300
Aug-20	3212	3423	3166
Sep-20	2828	2992	3121

M/s Vimta Lab Limited Stack Analysis Report:

Annexure-III

Cement Mill Stack

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Report Number : VLL/VLS/20/01911/006
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P.O. Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
P.O. Date : 2019-05-28


Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL

Test Required : Particulate Matter
Sample Collected date : 2020/06/16
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	4.0
Cross Sectional Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	89
Flue Gas Velocity	m/sec	IS:11255 PART (III)	8.7
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	102
Moisture Content, %V/V	%	IS:11255 PART (III)	< 5.0
Particulate Matter	mg/Nm ³	IS:11255 PART (I)	10.3


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VILLAGE KODLA,
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KARNATAKA.

Report Number : VLL/VLS/20/03478/004
Issued Date : 2020-07-30
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 : 2020-07-22
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	68
Velocity	m/sec	IS:11255 PART (III)	7.1
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	88.7
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	10.26


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KARNATAKA.

Report Number : VLL/VLS/20/04489/004
Issued Date : 2020-08-14
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 : 2020-08-04
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	71
Velocity	m/sec	IS:11255 PART (III)	6.9
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	87.3
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	12.01

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And Date : 2019-05-28

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Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO CEMENT MILL

Test Required : Particulate Matter
Sample Collected date : 2020-09-08
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	4.0
Area of stack	m ²	-	12.56
Flue Gas Temperature	°C	-	79
Velocity	m/sec	IS:11255 PART (III)	7.3
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	77.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	15.7

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Raw Mill Stack

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And Date : 2019-05-28

Kind Attn. : Mr. J. Sunil
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Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date : 2020-07-22
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m ²	-	24.64
Flue Gas Temperature	°C	-	115
Velocity	m/sec	IS:11255 PART (III)	7.49
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	184.4
Oxygen	%	Flue Gas Analyzer	10.3
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	7.9
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	584

PM, SO₂ and NO_x are corrected to 10% oxygen
Minimum Detectable Limit of for SO₂ ~ 3.4 mg/Nm³

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And Date : 2019-05-28

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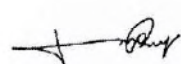
SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date : 2020-08-04
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m ²	-	24.64
Flue Gas Temperature	°C	-	109
Velocity	m/sec	IS:11255 PART (III)	7.62
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	187.8
Oxygen	%	Flue Gas Analyzer	10.9
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	9.3
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	528

PM, SO₂ and NO_x are corrected to 10% oxygen
Minimum Detectable Limit of for SO₂ - 3.4 mg/Nm³


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Kind Attn. : Mr. J. Sunil
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Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO RAW MILL KILN

Test Required : Particulate Matter, Sulphur dioxide, Oxide of Nitrogen;
Sample Collected date : 2020-09-09
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UoM	Method Adopted	Results
Diameter of Stack	m	-	5.6
Area of stack	m ²	-	24.64
Flue Gas Temperature	°C	-	116
Velocity	m/sec	IS:11255 PART (III)	8.46
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	157.54
Oxygen	%	Flue Gas Analyzer	10.0
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	12.4
Sulphur dioxide	mg/Nm ³	IS: 11255 PART (I) 1985	<3.4
Oxide of Nitrogen	mg/Nm ³	IS: 11255 PART (I) 1985	539

PM, SO₂ and NO_x are corrected to 10% oxygen
Minimum Detectable Limit of for SO₂ - 3.4 mg/Nm³

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CIN : L24110TG1990PLC011977

Coal 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/20/03478/003
Issued Date : 2020-07-30
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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

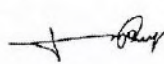
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO COAL MILL

Test Required : Particulate Matter
Sample Collected date : 2020-07-22
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m ²	-	2.01
Flue Gas Temperature	°C	-	81
Velocity	m/sec	IS:11255 PART (III)	5.6
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	9.4
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	15.06


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Report Number : VLL/VLS/20/03478/003
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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 : 2020-07-22
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m ²	-	2.01
Flue Gas Temperature	°C	-	87
Velocity	m/sec	IS:11255 PART (III)	6.0
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	9.9
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	11.7

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KARNATAKA.

Report Number : VLL/VLS/20/05587/003
Issued Date : 2020-09-18
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 : 2020-09-09
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UOM	Method Adopted	RESULTS
Diameter of Stack	m	-	1.6
Area of stack	m ²	-	2.01
Flue Gas Temperature	°C	-	90
Velocity	m/sec	IS:11255 PART (III)	5.6
Volumetric Flow Rate	Nm ³ /Sec	IS:11255 PART (III)	9.1
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	16.4

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Cooler Stack

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KARNATAKA.

Report Number : VLL/VLS/20/03478/002
Issued Date : 2020-07-30
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932.
And Date : 2019-05-28

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

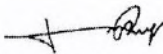
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER

Test Required : Particulate Matter
Sample Collected date : 2020/07/22
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m ²	-	14.52
Flue Gas Temperature	°C	-	284
Velocity	m/sec	IS:11255 PART (III)	9.36
Volumetric Flow Rate	Nm ³ /sec	IS:11255 PART (III)	136
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	14.7


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Report Number : VLL/VLS/20/04489/002
Issued Date : 2020-08-14
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 : 2020/08/04
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m ²	-	14.52
Flue Gas Temperature	°C	-	284
Velocity	m/sec	IS:11255 PART (III)	9.55
Volumetric Flow Rate	Nm ³ /sec	IS:11255 PART (III)	139.0
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	10.4


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Report Number : VLL/VLS/20/05587/002
Issued Date : 2020-09-18
Your Ref : SCL/CC/ARC/KODLA/18-19/VO-4932.
And Date : 2019-05-28

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

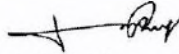
Page 1 of 1

SAMPLE PARTICULARS : STACK ATTACHED TO ESP COOLER

Test Required : Particulate Matter
Sample Collected date : 2020/09/08
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Parameter	UOM	Method Adopted	Results
Diameter of Stack	m	-	4.3
Area of stack	m ²	-	14.52
Flue Gas Temperature	°C	-	124
Velocity	m/sec	IS:11255 PART (III)	8.6
Volumetric Flow Rate	Nm ³ /sec	IS:11255 PART (III)	92.93
Moisture Content, V/V	%	IS:11255 PART (III)	<5.0
Particulate Matter	mg/Nm ³	IS: 11255 PART (I) 1985	11.8


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Ground water level Report**Annexure-V**

Sr. No.	Year-2019	Location	
		Piezometer towards Plant boundary near main gate	Piezometer near Plant and mine boundary
1	Apr-20	38.6	52.8
2	May-20	39.2	53.3
3	Jun-20	37.2	51.6
4	July-20	33.8	51.7
5	Aug-20	30.6	50.8
6	Sep-20	30.1	51.1

Ground water Quality Report

Annexure-VI

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Report Number : VLL/VLS/20/01911/005
Issued Date : 2020-06-30
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And Date : 2019-05-28

Kind Attn. : Mr. J. SUNIL
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Page 1 of 3

SAMPLE PARTICULARS : BOREWELL WATER

Sample Registration Date	: 2020-06-19	Sampling Date	: 2020-06-17
Analysis Starting Date	: 2020-06-19	Analysis Completion Date	: 2020-06-26

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

Sr.No	Parameters	UNIT	IS: 10500 Limits	Near CCR- GW10	Near 92 Seater Area -GW1	New Permanent Township West Boundary Wall - GW2	Permanent Township East Boundary wall - GW3
1	pH	-	6.5 - 8.5(NR)	7.32	7.14	7.29	7.64
2	Colour	Hazen	5(15)	2	3	3	2
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	5	1165	1098	1275	1318
6	Turbidity	NTU	1(5)	3	4	4	4
7	TDS	mg/l	500(2000)	648.58	612.16	700.37	734.02
8	Total Hardness as CaCO ₃	mg/l	200(600)	288.9	289.6	343.5	318.3
9	Total Alkalinity	mg/l	200(600)	265	229	276	269
10	Calcium as Ca	mg/l	75(200)	63.7	72.4	68.4	74.3
11	Magnesium as Mg	mg/l	30(100)	31.5	26.4	41.3	32.2
12	Residual Chlorine	mg/l	0.2(1.0)	<0.2	<0.2	<0.2	<0.2
13	Boron as B	mg/l	0.5(1.0)	0.36	0.21	0.43	0.17
14	Chlorides as Cl	mg/l	250(1000)	144.5	162.3	174.3	186.3
15	Sulphates as SO ₄	mg/l	200(400)	98.5	82.3	102.3	112.4
16	Fluorides as F	mg/l	1.0(1.5)	0.9	1.1	0.8	0.6
17	Nitrates as NO ₃	mg/l	45(NR)	17.9	6.5	7.5	8.1
18	Sodium as Na	mg/l	5	132.5	116.3	129.6	152.3
19	Potassium as K	mg/l	5	5.6	7.4	9.5	6.3
20	Phenolic Compounds	mg/l	0.001(0.002)	<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
22	Anionic Detergents	mg/l	0.2 (1.0)	<0.20	<0.20	<0.20	<0.20
23	Mineral Oil	mg/l	0.5(NR)	<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
25	Arsenic as As	mg/l	0.03(0.05)	<0.01	<0.01	<0.01	<0.01
26	Copper as Cu	mg/l	0.05 (1.5)	0.01	0.02	0.04	0.02
27	Lead as Pb	mg/l	0.01 (NR)	<0.01	<0.01	<0.01	<0.01
28	Manganese as Mn	mg/l	0.1 (0.3)	0.02	0.04	0.09	0.02
29	Iron as Fe	mg/l	0.3(NR)	0.08	0.06	0.07	0.12
30	Total Chromium as Cr	mg/l	0.05(NR)	<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
32	Zinc as Zn	mg/l	5(15)	0.23	0.14	0.09	0.12
33	Aluminum as Al	mg/l	0.03(0.2)	0.05	0.06	0.08	0.09
34	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
35	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent
36	F Coli	-	Absent	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	10	Absent	Absent	Absent	Absent

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SHREE CEMENT LIMITED
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VILLAGE KODLA,
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KARNATAKA.

Report Number : VLL/VLS/20/01911/005
Issued Date : 2020-06-30
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 2 of 3

SAMPLE PARTICIPANTS : RORFWELL WATER

Sample Registration Date : 2020-06-19 Sampling Date : 2020-06-17
Analysis Starting Date : 2020-06-19 Analysis Completion Date : 2020-06-26

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

S.No	Parameters	Unit	IS:10500 Limits	Permanent Township Near Canteen side -GW5	Bricks plant Back side -GW7	Bricks plant Near Tanker Filling -GW8	Permanent Township Near Tanker Filling -GW9
1	pH	-	6.5 - 8.5(NR)	7.72	7.89	7.42	7.26
2	Colour	Hazen	5(15)	3	2	2	1
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	5	1068	1275	1466	1160
6	Turbidity	NTU	1(5)	3	3	4	3
7	TDS	mg/l	500(2000)	592	715	828	654
8	Total Hardness as CaCO ₃	mg/l	200(600)	282.8	303.9	341.8	270.9
9	Total Alkalinity	mg/l	200(600)	249	272	298	247
10	Calcium as Ca	mg/l	75(200)	71.3	84.6	76.3	61.3
11	Magnesium as Mg	mg/l	30(100)	25.4	34.8	36.7	28.6
12	Residual Chlorine	mg/l	0.2(1.0)	<0.2	<0.2	<0.2	<0.2
13	Boron as B	mg/l	0.5(1.0)	0.32	0.27	0.19	0.36
14	Chlorides as Cl	mg/l	250(1000)	138.6	188.8	208.2	178.6
15	Sulphates as SO ₄	mg/l	200(400)	74.3	84.5	125.3	68.7
16	Fluorides as F	mg/l	1.0(1.5)	1.2	0.7	1	0.9
17	Nitrates as NO ₃	mg/l	45(NR)	9.2	11.3	10.2	8.2
18	Sodium as Na	mg/l	5	110.2	146.3	174.6	134.6
19	Potassium as K	mg/l	5	7.8	11.2	9.8	12.5
20	Phenolic Compounds	mg/l	0.001(0.002)	<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
22	Anionic Detergents	mg/l	0.2 (1.0)	<0.20	<0.20	<0.20	<0.20
23	Mineral Oil	mg/l	0.5(NR)	<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
25	Arsenic as As	mg/l	0.01(0.05)	<0.01	<0.01	<0.01	<0.01
26	Copper as Cu	mg/l	0.05 (1.5)	0.01	0.02	0.01	0.01
27	Lead as Pb	mg/l	0.01 (NR)	<0.01	<0.01	<0.01	<0.01
28	Manganese as Mn	mg/l	0.1 (0.3)	0.03	0.07	0.02	0.06
29	Iron as Fe	mg/l	0.3(NR)	0.11	0.13	0.08	0.09
30	Total Chromium as Cr	mg/l	0.05(NR)	<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
32	Zinc as Zn	mg/l	5(15)	0.13	0.23	0.09	0.17
33	Aluminium as Al	mg/l	0.03(0.2)	0.06	0.07	0.04	0.03
34	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
35	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent
36	E.Coli	-	Absent	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	10	Absent	Absent	Absent	Absent

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Report Number : VLL/VLS/20/01911/005
Issued Date : 2020-06-30
Your Ref : SCL/CC/ARC/KODLA/18-19/WO-4932
And Date : 2019-05-28

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

Page 3 of 3

SAMPLE PARTICULARS : BOREWELL WATER

Sample Registration Date : 2020-06-19 Sampling Date : 2020-06-17
Analysis Starting Date : 2020-06-19 Analysis Completion Date : 2020-06-26

SAMPLE COLLECTED BY VIMTA LABS LTD

TEST REPORT

Sr.No	Parameters	Unit	IS: 10500 Limits	Sand Plant Back Side - GW4	Bricks plant Back Side Near Security Tower -GW6
1	pH	-	6.5 - 8.5 (NR)	6.98	7.14
2	Colour	Hazen	5(15)	2	3
3	Taste	-	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	5	983	1102
6	Turbidity	NTU	1(5)	3	4
7	TDS	mg/l	500(2000)	547.38	606.57
8	Total Hardness as CaCO ₃	mg/l	200(600)	258.4	268.7
9	Total Alkalinity	mg/l	200(600)	207	235
10	Calcium as Ca	mg/l	75(200)	58.6	54.3
11	Magnesium as Mg	mg/l	30(100)	26.7	32.3
12	Residual Chlorine	mg/l	0.2(1.0)	<0.2	<0.2
13	Boron as B	mg/l	0.5(1.0)	0.29	0.17
14	Chlorides as Cl	mg/l	250(1000)	128.7	148.8
15	Sulphates as SO ₄	mg/l	200(400)	84.6	93.7
16	Fluorides as F	mg/l	1.0(1.5)	1.2	0.9
17	Nitrates as NO ₃	mg/l	45(NR)	12.3	6.7
18	Sodium as Na	mg/l	5	102.3	124.6
19	Potassium as K	mg/l	5	8.7	6.2
20	Phenolic Compounds	mg/l	0.001(0.002)	<0.001	<0.001
21	Cyanides as CN	mg/l	0.05 (NR)	<0.02	<0.02
22	Anionic Detergents	mg/l	0.2 (1.0)	<0.20	<0.20
23	Mineral Oil	mg/l	0.5(NR)	<0.01	<0.01
24	Cadmium as Cd	mg/l	0.003 (NR)	<0.003	<0.003
25	Arsenic as As	mg/l	0.01(0.05)	<0.01	<0.01
26	Copper as Cu	mg/l	0.05 (1.5)	0.02	0.01
27	Lead as Pb	mg/l	0.01 (NR)	<0.01	<0.01
28	Manganese as Mn	mg/l	0.1 (0.3)	0.01	0.02
29	Iron as Fe	mg/l	0.3(NR)	0.08	0.07
30	Total Chromium as Cr	mg/l	0.05(NR)	<0.01	<0.01
31	Selenium as Se	mg/l	0.01(NR)	<0.01	<0.01
32	Zinc as Zn	mg/l	5(15)	0.09	0.16
33	Aluminum as Al	mg/l	0.03(0.2)	0.05	0.08
34	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001
35	Pesticides	mg/l	Absent	Absent	Absent
36	E.Coli	-	Absent	Absent	Absent
37	Total Coliforms	MPN/100	10	Absent	Absent

Dr. SubbaReddy Mallampati
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CIN : L24110TG1890PLC011977

Annexure-VI
Noise Monitoring

SCL Noise analysis report:

Apr-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	50.7	39.8
02.	Near east side plant & mine boundary	54.3	42.6
03.	Near CCR building	59.8	46.4
04.	Near crusher	68.2	57.1
05.	Near cement mill	69.9	61.2

May-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	52.6	40.3
02.	Near east side plant & mine boundary	55.2	40.7
03.	Near CCR building	58.1	42.3
04.	Near crusher	69.9	56.8
05.	Near cement mill	68.3	58.4

Jun-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	51.2	38.7
02.	Near east side plant & mine boundary	53.8	40.2
03.	Near CCR building	59.4	41.9
04.	Near crusher	70.3	53.8
05.	Near cement mill	69.7	56.3

July-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	53.7	45.6
02.	Near east side plant & mine boundary	54.6	43.8
03.	Near CCR building	58.2	42.3
04.	Near crusher	71.6	54.7
05.	Near cement mill	70.4	55.1

Aug-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	51.9	42.6
02.	Near east side plant & mine boundary	53.6	40.8
03.	Near CCR building	56.7	39.2
04.	Near crusher	68.3	51.5
05.	Near cement mill	69.6	54.3

Sep-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	53.1	40.6
02.	Near east side plant & mine boundary	51.7	39.2
03.	Near CCR building	59.2	41.6
04.	Near crusher	70.9	53.4
05.	Near cement mill	71.6	55.1

M/s Vimta Lab Limited Noise 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/20/01911/002
Issued Date : 2020-06-30
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 : 2020-06-19 Sampling Date : 2020-06-17

Test Required : L₁₀, L₅₀, L₅₀, 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	53.2	49.3	45.6	50.3	51.1	47.5	54.6
2	Near east side plant & mine boundary	51.4	47.5	43.8	48.5	49.3	45.7	52.8
3	Near Crusher	61.8	57.9	54.2	58.9	59.7	56.1	63.2
4	Near Cement Mill	63.1	59.2	55.5	60.2	61.0	57.4	64.5
5	Near CCR Building	56.8	52.9	49.2	53.9	54.7	51.1	58.2

Dr. SubbaReddy Mallampati
Group Leader - Environment