



o/c

SHREE CEMENT LTD.

An ISO 9001, 14001, 45001 & 50001 Certified Company

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SCL/OCP/ENV/2020-21/1865

Date: 25/11/2020

To

Addl. Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest & Climate Change,
Regional Office (EZ), A/3, Chandersekharpur,
Bhubaneswar-751023.

Sub: - Half Yearly Compliance Condition of Environmental Clearance of Odisha Cement Plant (A Unit of Shree Cement Ltd) at Village- Chandrabali shyampur, Tehsil-Athgarh, Dist.- Cuttack Odisha.

Ref: - SEIAA Ref. No 5859/SEIAA Dated: 31.08.2018.

Dear Sir,

Kindly refer to the above subject matter and referred letter. We are submitting herewith the point wise compliance of condition of the above Environmental clearance for the period of **April- 2020 to September- 2020.**

This is for your necessary submission please.

Thanking you,

Yours faithfully,

For M/s Odisha Cement plant
(A Unit of M/s Shree Cement Ltd.)


(Dr. Anil Kumar Trivedi)
Sr. General Manager (Environment)

Copy to:

- 1) The Member Secretary, State Environment Impact Assessment Authority, Odisha, 5 RF-2/1, Acharya Vihar, Unit-IX, Bhubaneswar, Odisha 751022
- 2) The In-charge, Central Pollution Control Board, 'South end Conclave' Block-502, 5th & 6th Floor, 1582, Razidanga, Main Road, Kolkata-700107
- 3) The Member Secretary, Odisha State Pollution Control Board, 1-A/6, Swati Villa, Surya Vihar, Link Road, Cuttack, Odisha-753012.

o/c SCL - OCP

JAIPUR OFFICE : SB-187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302015
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Compliance of Environment Clearance Conditions issued by State Level Environment Impact Assessment Authority Reference no. 5859/SEIAA Dated 31.08.2018. for the Proposed Clinker Grinding Unit with capacity of 5.5 MTPA Cement (OPC,PPC,PSC) in phase manner (phase-I: 3.0 MTPA Cement and phase-II, 2.5 MTPA Cement) along with 20 MW Captive Power Plant in 2nd phase and residential colony at Village- Chandrabali shyampur, Tehsil-Athgarh, Dist.- Cuttack Odisha for the period from April-2020 to September-2020.

S. No.	Conditions	Compliance
I. Monitoring of Compliance		
i	The project proponent shall obtain clearance under the provisions of Forests (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	No forest land involved within the plant area.
ii	The Project Proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable as No Wildlife Sanctuary is present within the 10 km radius of the project site.
iii	The proponent shall prepare site-specific wildlife Conservation plan & Wildlife Management plan and approved by Chief Wildlife Warden. The recommendations of the approved site-specific Conservation plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the Six monthly compliance report (in case of the presence of schedule-I species in the study area).	A site specific Wildlife Conservation plan got approved vide letter no: 7069/1WL-EC-Power-SSP-131/2018 dated: 02.08.2018 . In this regard an amount of Rs. 1.44 cr. has been deposited on 01/09/2018 in CAMPA account no. 520101263743655, intimation of same was submitted to the DFO Athagarh, vide letter dated 03/09/2018.
iv	The project proponent shall obtain consent to establish/ operate under the provisions of Air (prevention & control of pollution) Act, 1981 and the Water (prevention & control of pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Obtained Consent to Establish vide letter no. 7467 IND-II-NOC-6109 dated 25.06.2018 for Phase I & II i.e. Phase-I: 3.0 MTPA Cement and phase-II, 2.5 MTPA Cement along with 20 MW Captive Power Plant and residential colony in 2 nd phase. And obtained Consent to Operate for Phase I i.e. production of 3.0 MTPA Cement vide letter no. 3988-IND-I-CON-6694 dated 27.03.2020 from the OSPCB.
v	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water/ from the competent authority concerned in case of drawl of surface water required for the project.	Obtained permission from CGWA for extraction of ground water vide letter no. CGWA/NOC/IND/ORIG/2018/3428 dated 05th April 2018 .
vi	The project proponent shall obtain the Authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Applied for obtaining Authorization under the Hazardous and other Waste Management Rules, 2016 vide Online application no. 2837712 dated 14.12.2019 , same is under process.
II. Air Quality monitoring and preservation		
i	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (protection) Rules 1986 (GSR No. 612(E) dated 25 th S.O. 3305 (E) dated 7 th December 2015 (Thermal power plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs	Agreed with. Continuous emission monitoring system for PM is installed at process stack of 3 MTPA capacity Clinker Grinding unit to monitor stack emission with respect to standards prescribed and same will be connected to SPCB and CPCB online servers. And same shall be done for CPP & additional 2.5 MTPA Clinker grinding unit to be installed in Phase-II

	recognized under Environment (protection) Act, 1986 or NABL accredited laboratories.	
ii	The project proponent shall monitor fugitive emission in the plant premises at least in every quarter through labs recognized under Environment (protection) Act 1986.	Noted & Will be complied.
iii	The project proponent shall install system carryout to Ambient Air Quality Monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emission) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions (case to case basis small plants. Manual; large plants; continuous). Data on ambient air quality and stack emission shall be regularly submitted to the SEIAA, Odisha Regional office, MoEF&CC, Bhubaneswar and the SPCB/CPCB once in six month.	Agreed with. 04 Nos. ambient air quality monitoring station have been installed for the monitoring of main pollutants (e.g. PM10, PM2.5, SO ₂ & NOx) and report will be furnished to PCB accordingly. Photograph of CAAQMS installed are attached as Photo – 1,2,3 & 4.
iv	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack Monitoring and manual monitoring of air quality/ fugitive emissions to the Regional Office of MoEF&CC, Zonal office of CPCB and Regional office of SPCB along with six-monthly monitoring report.	Noted. Monthly report of continuous stack emission and air quality monitoring and results of manual stack Monitoring and fugitive emissions will be submitted to the regional office of MoEF&CC, Zonal office of CPCB and Regional office of SPCB after commissioning of Plant. The Manual Ambient Air Quality report is attached as Annexure-1.
v	Appropriate Air Pollution Control (APC) system shall be provided for all the first generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Agreed with. Air Pollution Control (APC) system has been installed at all dust generating points (viz. material transfer point, hoppers, cement silo, Cement bulk silo etc.) to comply prescribed standards.
vi	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Agreed with. Mechanised bag cleaning facilities has been provided for better maintenance of bags.
vii	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	CREP guidelines will be followed.
viii	Sufficient number of mobile or stationary vacuum cleaners shall be provide to clean plant road, shop floors, rods, regularly.	Agreed with. Mobile Vacuum cleaners has been provided for better housekeeping.
ix	Ensured covered transportation and covering of raw materials to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.	Covered transportation, conveying of raw material and closed bulkers will be used.
x	Provide wind shelter fence and chemical spraying on the raw material stock piles.	Agreed with. Silos have been provided for storage of Clinker & Fly Ash and Covered shed have been provided for storage of Gypsum.
xi	Provide low NOx burners as primary measures and SCR/NSCR technologies as secondary measure to control NOx emissions.	Not Applicable for Cement grinding unit.

xii	Have separate truck parking area and monitor vehicular emissions at regular interval.	Agreed with. Separate truck parking will be made and only PUC certified vehicle will be allowed.
xiii	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.	Agreed with. Covered conveyor belts with the provision of bag filters at transfer points will be used for the transport of the raw materials and end product to reduce the impact on surrounding environment.
xiv	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.	Agreed with. Ventilation system will be provided for adequate air changes for all tunnels, motor houses, cement bagging plants.
III. Water quality monitoring and preservation		
i	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (protection) Rules 1986 vide G.S.R.No.612 (E) dated 25 th August, 2014 (cement) and S.O. 3305 (E) dated 7 th December 2015 (Thermal power plant) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (protection) Act, 1986 or NABL accredited laboratories (case to case basis small plants; Manual; large plants; Continuous).	Not applicable as no trade effluent will be generated from the current Phase-1 operation of 3 MTPA grinding plant. STP provided with capacity 60 m3/day for treatment of domestic effluent and treated water will be used in gardening. The same shall be complied after installation of Thermal Power Plant in phase - 2
ii	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/ sampling wells in the plant and adjacent areas through labs recognized under Environment (protection) Act, 1986 and NABL accredited laboratories.	Agreed with. Ground water quality is being monitored twice a year (pre and post monsoon) through recognised labs and piezometer wells for the monitoring of ground water levels. The ground water quality monitoring report of post monsoon season is attached as Annexure-2 .
iii	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to SEIAA, Odisha Regional office, MoEF&CC Bhubaneswar and the SPCB/CPCB once in six month.	Continuous effluent monitoring is not applicable as industry adhere to "zero liquid discharge". Six monthly report of manual monitoring of ground water quality is attached as Annexure-2 .
iv	Adhere to 'Zero Liquid Discharge'.	Agreed with. Zero liquid discharge will be complied.
v	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	Sewage treatment plant has been constructed of 60 m3/day capacity for treatment of domestic wastewater and treated water is being used in gardening purpose.
vi	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Not applicable as Clinker and Fly ash will be stored in silos and gypsum will be stored in covered shed.
vii	The project proponent shall practice rain water harvesting to maximum possible extent and efforts shall be made to use of harvested rain water.	Agreed with. We have implemented three numbers of Rain Water Harvesting structure for recharge of rain water into the ground. Additionally, we

		have constructed one Rain water harvesting Pond of capacity 50,000 KL inside plant area. Rain water harvested in the pond will be used in green belt development/plant operation.
viii	Water meters shall be provided at the inlet to all unit processes in the cement plant.	Water flow metres have been provided at the inlet to all processes in the cement plant.
ix	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Agreed with. Efforts will be made to minimise water consumption. Domestic effluent will be treated in STP and treated water will be used on land for gardening.
IV. Noise monitoring and prevention		
i	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the Ministry as a part of six monthly compliance report.	Monitoring of noise level will be done as per the prescribed guidelines and report will be submitted to Regional Officer of the Ministry as a part of six monthly compliance report.
ii	The ambient noise levels should confirm to standards prescribed under E(P) Rules, 1986 viz.75 dB (A) during day time and 70 dB (A) during night time.	Agreed with. Acoustic hoods, silencers, enclosures will be provided for meeting the ambient noise standards.
V. Energy Conservation measures		
i	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, Street lights, parking around project area and maintain the same regularly.	Agreed with. Solar power generation arrangements will be provided on roof tops of buildings, for solar light system at all common areas, street lights, parking area and will maintain the same regularly.
ii	Provide the project proponent for LED lights in their offices and residential areas.	Agreed with. LED lights will be provided in office areas.
iii	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.	Agreed with. Fly ash, slag & sweetener will be used in cement manufacturing as per BIS standards
VI. Waste management		
i	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management &Trans boundary Movement) Rules, 2016.	Agreed with. Used/spent oil (Cat. 5.1) will be generated and disposed through sales to CPCB/SPCB authorized recycler and pre-processors.
ii	Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case basis depending on types and sizes of plant)	Noted & will be complied.
VII. Green Belt		
i	Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The green belt shall inter alia cover the entire periphery of the plant.	Agreed with. Currently a plantation of 4,000 Nos. of plants have been planted within the plant area.
ii	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Agreed with. Company will follow the Cement Sustainability Initiative (CSI) CO2 and "Energy Accounting and Reporting Standard for the Cement Industry" for the calculation of the GHG emissions.
VIII. Public hearing and Human Health issues		
i	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster management plan shall be implemented.	Emergency preparedness plan and disaster management plan has been prepared and implemented

ii	The PP shall provide personal protection equipment (PPE) as per the norms of Factory Act.	Noted and adequate PPEs will be provide as per the norms of factory Act.
iii	Provision shall be made for the housing construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted. Provision have been 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 etc.
IX. Corporate Environment Responsibility		
i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Agreed with. Company will comply with the provision regarding Corporate Environment Responsibility through implementation of EMP & CSR activities
ii	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribed for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forests/ wildlife norms/ conditions and/or shareholders/ stake holders. The copy of the board resolution on this regard shall be submitted to the MoEF&CC as a part of six monthly report.	Company already have corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions. Same will be followed in the proposed clinker grinding unit. Copy of the same is attached as Annexure-3 .
iii	A separate Environmental Cell both at the project and company head quarter, with qualified personnel shall be set up under the control of senior Executive, who will report directly to the head of the organization.	Complying with
iv	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority. The year wise funds earmarked for environmental protection measures shall be kept in a separate account and not be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIA, Odisha/ Regional Office along with the Six monthly compliance report.	The funds earmarked for Environmental Protection measures are being utilized for the same and Total expenditure incurred during the period January-2020 to September-2020 is attached as Annexure - 4 .
v	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted. Self-environmental audit will be carried out accordingly.
vi	All the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for the cement plants shall be implemented.	Noted and will be complied.
X. Miscellaneous		
i	The project proponent shall make public the environment clearance granted for their project along with the environmental conditions and safeguards at their costs by prominently advertising it at least in two local newspapers of the District or State, of Which one shall be in the vernacular language within seven days, and in addition this shall also be displayed in the project proponent's website permanently and a copy of the	Environmental clearance vide letter no. 5859/SEIAA has been already published in two local newspapers. i.e. Odisha post and Sambad and same has been displayed on industry website www.shreecement.com Copy of same has been submitted to the Regional Office, MoEF&CC, Bhubaneswar as well as State Pollution Control Board, Odisha.

	same should be forwarded to the Regional Office, MoEF&CC, Bhubaneswar as well as State Pollution Control Board, Odisha.	
ii	The copies of the environment clearance shall be submitted by the project proponents to the Heads of Local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	The copies of Environmental clearance has been submitted to the Heads of Local bodies, Panchayats and Municipal Bodies.
iii	The project proponent shall upload the status of the compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and update the same on half yearly basis.	Complied. Environmental clearance Compliance status is available on company website.
iv	The project proponent shall monitor the criteria pollutants level namely, PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Noted and monitored data will be displayed at a convenient location for disclosure to the public and website of the company.
v	The project proponent shall also submit six-monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitor data (both in hard copies as well as by E- mail) to the Regional office of MoEF&CC, Bhubaneswar, the respective Zonal office of CPCB, the SPCB and shall update the same on the environmental portal of the Ministry. The Regional office of MoEF&CC at Bhubaneswar/ CPCB/ SPSCB shall monitor the stipulated conditions.	We have submitted six monthly compliance report on the status of the compliance of the stipulated environmental conditions including results of monitored data hard copies as well as by-mail to the Regional Office of MoEF&CC, Zonal Office of CPCB and the SPCB.
vi	The project proponent shall submit the environmental statement for each financial year in Form- V to the concerned State Pollution Control Board as prescribed under Environmental (protection) Rules, 1986, as amended subsequently and put on the website of the company and shall also be sent to the Regional Office of the MoEF&CC at Bhubaneswar by E-mail.	Environmental statement for financial year 2019-20 in form-V was submitted to the State Pollution Control Board on 28.09.2020 and it is uploaded on the website of the Company along with the status of compliance of EC conditions and sent to the regional office of the MoEF&CC by e-mail.
vii	The project proponent shall inform the Regional Office as well as the SEIAA, Odisha, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted and will be complied.
viii	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted and the company will follow the stipulations made by the State Pollution Control Board and the state government.
ix	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report commitment made during public hearing and also that during their presentation to the State Expert Appraisal Committee.	Agreed with. Company will implement all the commitments and recommendation made in the EIA/EMP report and during public hearing.
x	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha.	Noted and No further expansion or modifications in the plant will be carried out without prior approval of the competent authority.

xi	Concealing factual data or submission of false/fabricated data results in revocation of this environmental clearance and attract action under the provisions of Environment (protection) Act, 1986.	Noted.
xii	The SEIAA, Odisha may revoke or suspense the clearance, of implementation of any of the above conditions is not satisfactory.	Noted.
xiii	The SEIAA, Odisha reserves the right to stipulate the additional conditions of found necessary. The company in a time bound manner shall implement these conditions.	Noted.
xiv	The Regional office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office (s) of the Regional Office by furnishing the requisite data/ information monitoring reports.	Noted and full cooperation will be provided.

A. Specific Conditions

1.	Environmental clearance granted. Bulk of the transport will be by railways with permission of WR Dept. The water requirement will be sourced primary from Mahanadi River. Rain water harvesting system shall be installed so as to have the capacity to harvest all the precipitation in a year in the surface area inside the premises.	Agreed with. We have obtained permission 350 KLD (0.14 cusecs) from Department of water resource (Government of Odisha) vide no. 27241/WR., WR-MAJII-WRC-0030-2018(OSWAS) Irr.-II-WRC-86/18(Physical) dated 27.10.2018 from Mahanadi River. 3 nos. of Rainwater harvesting structures and one rain water harvesting pond of capacity 50,000 KL has been constructed for the augmentation of ground water.															
2.	The Environmental Clearance is granted for installation of Clinker Grinding unit of capacity 5.5 MTPA for Production of Portland pozzolana cement (PPC), Ordinary Portland Cement (OPC) and Portland slag cement (PSC) in two phases (phase – I: 3.0 MTPA along with DG sets 2x500 KVA + 1x 250 KVA and please- II: 2.0 MTPA along with 20 MW Captive Thermal Power Plant and Residential Colony of 100 dwelling units).	Noted.															
3.	The unit shall comply the following prescribed stack emission standards attached to the ESP of Captive Power Plant as per the Gazette of MoEF&CC, Govt. Of India vide S.O.3305 (E), dated 07.12.2015. <table border="1" data-bbox="183 1556 798 1825"> <thead> <tr> <th>Sl. No.</th><th>Parameters</th><th>Prescribed standard (mg/Nm³)</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Particulate matter (PM)</td><td>30</td></tr> <tr> <td>2.</td><td>Sulphur Dioxide (SO₂)</td><td>100</td></tr> <tr> <td>3.</td><td>Oxides of Nitrogen (NO_x)</td><td>100</td></tr> <tr> <td>4.</td><td>Mercury (Hg)</td><td>0.03</td></tr> </tbody> </table>	Sl. No.	Parameters	Prescribed standard (mg/Nm ³)	1.	Particulate matter (PM)	30	2.	Sulphur Dioxide (SO ₂)	100	3.	Oxides of Nitrogen (NO _x)	100	4.	Mercury (Hg)	0.03	Noted & will be complied after installation of Captive Power Plant in second phase.
Sl. No.	Parameters	Prescribed standard (mg/Nm ³)															
1.	Particulate matter (PM)	30															
2.	Sulphur Dioxide (SO ₂)	100															
3.	Oxides of Nitrogen (NO _x)	100															
4.	Mercury (Hg)	0.03															
4.	The National Ambient Air Quality Standards Issued by the MoEF&CC, Govt. of India vide G.S.R. No. 826. (E) Dated 16 th November, 2009 shall be followed.	Noted & will be followed accordingly.															
5.	Diesel Power generating sets proposed as source of backup power shall be of enclosed type and confirm to the rules made under Environmental (protection) Act, 1986. The height of stack of DG sets should be	Currently 2 x 250 KVA DG sets are in use during construction phase. And the said DG sets are enclosed type and confirm to the standards made under Environmental (protection) Act,															

	equal to the height needed for the combined capacity off all proposed DG sets. Only more sulphur Diesel will be used. The location of the DG sets may be decided in consultation with State Pollution Control Board.	1986. And appropriate stack heights is provided.															
6.	The height of the stack attached to the DG set shall confirm to the following: $H=h+0.2 \sqrt{KVA}$ (Where, h= Height of the building where it is installed in meter. KVA= Capacity of D.G. Set and H= Height of the stack in meter above ground level).	We have maintained stack height of the DG sets is as per the mentioned formula.															
7.	The proponent shall not use pet coke as fuel in Captive Power Plant (CPP) and Hot Air Generator (HAG).	Noted & will be complied.															
8.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agriculture land by the use of conveyors/ rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.	Agreed with. Covered conveyor belts with the provision of bag filters at transfer points will be used for the transport of the raw materials and end product to reduce the impact on surrounding environment. Separate truck parking will be made and only PUC certified vehicle will be allowed.															
9.	Ground water shall only be used during construction period with prior approval from the concerned authority and obtain permission from concerned authorities for drawal of surface water for industrial purpose.	Permission for abstracting ground water is obtained from CGWA dated 05/04/2018. Also permission for use of surface water from Mahanadi is obtained from Department of water resource (Government of Odisha) vide no. 27241/WR., WR-MAJII-WRC-0030-2018(OSWAS) Irr.-II-WRC-86/18(Physical) dated 27.10.2018.															
10.	The domestic waste water generated from the residential colony shall be treated in Sewage Treatment Plant of capacity 60 KLD to meet the following standards as notified by the MoEF&CC, Govt. of India vide G.S.R.1265. (E), dated 13.10.2017. The treated water shall be reused for flushing, gardening and plantation to the maximum possible extent. <table border="1" data-bbox="188 1395 900 1601"> <thead> <tr> <th>Sl. No.</th><th>Parameters</th><th>Standards</th></tr> </thead> <tbody> <tr> <td>1.</td><td>pH</td><td>6.5-9.0</td></tr> <tr> <td>2.</td><td>BOD (mg/l)</td><td>30</td></tr> <tr> <td>3.</td><td>TSS (mg/l)</td><td><100</td></tr> <tr> <td>4.</td><td>Fecal coliform (MPN/100ml)</td><td><1000</td></tr> </tbody> </table>	Sl. No.	Parameters	Standards	1.	pH	6.5-9.0	2.	BOD (mg/l)	30	3.	TSS (mg/l)	<100	4.	Fecal coliform (MPN/100ml)	<1000	Sewage Treatment Plant has been provided of 60 m3/day capacity for treatment of domestic effluent to meet the prescribed standards and treated water will be used in gardening.
Sl. No.	Parameters	Standards															
1.	pH	6.5-9.0															
2.	BOD (mg/l)	30															
3.	TSS (mg/l)	<100															
4.	Fecal coliform (MPN/100ml)	<1000															
11.	All the treated water shall be recycled and reused in the process and/ or for dust suppression and green belt development and other plant related activities etc. No waste water shall be discharged outside the factory premises and Zero Liquid Discharge outside the factory premises and Zero Liquid Discharge (ZLD) shall be adopted.	Agreed with. Domestic sewage water is treated in STP and treated water is being used for plantation purpose.															
12.	Ash generated from Captive Power plant (CPP), Hot Air generator (HAG) and dust generated from APC devices shall completely reused in cement manufacturing process. Spent oil and batteries shall be sold to authorized recyclers/ re-processors only.	Captive Power plant (CPP) will be installed in second phase. Ash generated from Hot Air generator (HAG) and dust generated from APC devices will be reused completely in cement manufacturing process.															
13.	STP sludge shall be used as manure for green belt development/ plantation.	Agreed with.															

		STP sludge is being used as manure for green belt development.
14.	Garbage / food waste from the colony, Canteen & Guest House shall be used for Vermicomposting and to be used as manure for greenbelt development.	Agreed with. Garbage/food waste generated from Canteen/Guest house/Colony will be used for Vermicomposting which will be used as manure for greenbelt development.
15.	Green belt over 33% (22.56 acres as proposed) of the total project area shall be developed within plant premises with at least 10 meters wide green belt on all sides along the periphery of the project area and along road sides etc. By planting native and broad leaves species in consultation with local DFO, local community and as per the CPCB guidelines.	Agreed with. Currently a plantation of 4,000 Nos. of plants have been planted within the plant area.
16.	The project proponent shall provide solar light system for all common areas, Street lights, villages, parking around project area and maintain the same regularly. The proponent shall use solar/Renewable energy of 5% of the expected actual per requirement.	Solar lights in common area, street lights and parking area will be provided. However, feasibility of solar power generation on roof tops of building will be explored.
17.	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on public hearing issues, locals need and item-wise details along with the time bound action plan shall be prepared and submitted to the SEIAA, Odisha and Regional Office, MoEF&CC, Bhubaneswar. Implementation of such program shall be ensured by constituting a committee comprising of the proponent, representatives of village and District Administration. Action taken report in this regard shall be submitted to the SEIAA Odisha as well as to the Regional Office, MoEF&CC, Bhubaneswar.	Details of expenses for CSR activities from April- 2020 to September- 2020 enclosed as Annexure- 5.
18.	In addition to the above provision of ESC, the proponent shall prepare a detailed CSR plan for the next 5 years including annual physical and financial targets for the project, which includes village-wise, sector-wise (Health Education, Sanitation, Skill Development and infrastructure etc.) activities in consultation with the local communities and administration. The plan so prepared shall be based on SMART (Specific, Measurable, Achievable, Relevant and Time bound) concept. The expenditure should be aimed at the sustainable development and direct free distribution and temporary relief should not be included. The CSR plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the companies Act, 2013 which provides 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and annual capital and revenue expenditure on various activities of the plan shall be submitted as a part of the compliance Report to the SEIAA, Odisha and Regional Office, MoEF&CC, Bhubaneswar. The details of CSR plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.	Details of expenses for CSR activities from April- 2020 to September- 2020 enclosed as Annexure- 5.

19.	A Risk Assessment study and Disaster preparedness and management plan along with the mitigation measures shall be prepared with a focus on Disaster preventative and a copy submitted to SEIAA, Odisha, Regional Office MoEF&CC, Bhubaneswar, SPCB and CPCB within 3 months of issue of this environment clearance.	Noted. Disaster Management Plan prepared and submitted and submitted to SEIAA, Odisha along with EIA report.
20.	To educate the workers, all the work places where dust may cause a hazard shall be clearly indicates as a first exposure area through the use of display signs which identifies the Hazard and the associated health effects.	Noted & Complying. Display signs which identify the Hazard and the associated health effects are displayed at work places to educate workers.
B. General Conditions:		
1.	The construction and demolition wastes to be generated from the proposed project shall be disposed of in accordance with the provisions of "Construction & Demolition Wastes Management Rules 2016".	complying with
2.	Municipal waste shall be disposed of as per the solid Waste Management Rules, 2016 and amendment thereafter.	complying with
3.	The company shall develop rain water harvesting structure to harvest the rain water for utilization in the mean seasons besides recharging the ground water table.	3 nos. of Rainwater harvesting structures & one rain water harvesting pond of 50,000 KL capacity has been developed for the augmentation of ground water.
4.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake Socio-economic Development Activities in the surrounding villages like Community Development Programmes, Educational programmes, drinking water supply and health care etc.	Environmental protection measures and safeguards recommended in EIA/ EMP are implemented.
5.	Project authorities shall inform the SEIAA, Odisha as well as the Regional Office, MoEF&CC, Bhubaneswar, 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 & will be complied.
6.	The above conditions shall be enforced, inter-alia under the provisions of the Water (prevention & Control of pollution) Act, 1974, the Air (prevention & control of pollution) Act, 198, the Environment (protection) Act, 1986, Hazardous & Other wastes (Management and Transboundary Movement) Rules, 2016 and the public (Insurance) Liability Act, 1991 along with their amendments and rules.	Noted.
7.	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
8.	The above mentioned stipulated conditions shall be complied in a time-bound manner. Failure to comply with any of the mentioned above may result in cancellation of this environmental clearance and attract action under the provisions of Environment (protection) Act, 1986.	Noted.



Contact : +91 - 9810243870

EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory

(An ISO 9001:2015 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No : 9711156210, 9711156427, SMS/Whatsapp No : 9711163422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT**Ambient Air Quality Monitoring**

Test Report No. : EKO/149/220520

Issue Date : 27/05/2020

Issued To

: Odisha Cement Plant
(A Unit Of Shree Cement Ltd.)
Village - Chandraball, Shyampur
Block- Athagarh,
District- Cuttack, Odisha

Sample Description : Ambient Air
Sample Drawn on : 20/05/2020 To 21/05/2020
Sample Drawn by : EPEPL (Mr. Harish Kumar)
Sample Received on : 22/05/2020
Sampling Location : Near Diesel Pump
Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15
Analysis Duration : 22/05/2020 To 26/05/2020
Ambient Temperature (°C) : 36.0
Average Flow Rate of SPM (m³/min.) : 1.1
Average Flow Rate of Gases (lpm) : 1.0
Weather Conditions : Clear
Remark (if any) : NA

RESULTS

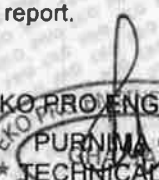
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	55.1	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	28.2	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	6.84	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	12.7	µg/m ³	80.0

Notes :

1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
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4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

**** End of Report ****

For EKO PRO ENGINEERS PVT. LTD.


PURNIMA CHAUHAN
* TECHNICAL MANAGER
(Authorised Signatory)

**EKO PRO ENGINEERS PVT. LTD.**

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TEST REPORT**Ambient Air Quality Monitoring****Test Report No. : EKO/150/220520****Issue Date : 27/05/2020**

Issued To

: Odisha Cement Plant
(A Unit Of Shree Cement Ltd.)
Village - Chandraball, Shyampur
Block- Athagarh,
District- Cuttack, Odisha

Sample Description : Ambient Air
Sample Drawn on : 20/05/2020 To 21/05/2020
Sample Drawn by : EPEPL (Mr. Harish Kumar)
Sample Received on : 22/05/2020
Sampling Location : Near Pond
Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15
Analysis Duration : 22/05/2020 To 26/05/2020
Ambient Temperature (°C) : 36.0
Average Flow Rate of SPM (m³/min.) : 1.1
Average Flow Rate of Gases (lpm) : 1.0
Weather Conditions : Clear
Remark (if any) : NA

RESULTS


S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	56.2	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	32.4	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	7.19	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	12.8	µg/m ³	80.0

Notes :

1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
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For EKO PRO ENGINEERS PVT. LTD.


PURNIMA CHAUHAN
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TEST REPORT**Ambient Air Quality Monitoring**

Test Report No. : EKO/148/220520

Issue Date : 27/05/2020

Issued To

: Odisha Cement Plant
 (A Unit Of Shree Cement Ltd.)
 Village - Chandraball, Shyampur
 Block- Athagarh,
 District- Cuttack, Odisha

Sample Description : Ambient Air
 Sample Drawn on : 20/05/2020 To 21/05/2020
 Sample Drawn by : EPEPL (Mr. Harish Kumar)
 Sample Received on : 22/05/2020
 Sampling Location : Near Switch Yard
 Sampling Time : 24.0 Hrs.
 Sampling Plan & Procedure : SOP-AAQ/15
 Analysis Duration : 22/05/2020 To 26/05/2020
 Ambient Temperature (°C) : 36.0
 Average Flow Rate of SPM (m³/min.) : 1.1
 Average Flow Rate of Gases (lpm) : 1.0
 Weather Conditions : Clear
 Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	53.8	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	31.8	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	7.19	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	16.2	µg/m ³	80.0

Notes :

1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
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TEST REPORT**Ambient Air Quality Monitoring****Test Report No. : EKO/151/220520****Issue Date : 27/05/2020**

Issued To

: Odisha Cement Plant
(A Unit Of Shree Cement Ltd.)
Village - Chandraball, Shyampur
Block- Athagarh,
District- Cuttack, Odisha

Sample Description : Ambient Air
Sample Drawn on : 20/05/2020 To 21/05/2020
Sample Drawn by : EPEPL (Mr. Harish Kumar)
Sample Received on : 22/05/2020
Sampling Location : Near Clinker Tank
Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15
Analysis Duration : 22/05/2020 To 26/05/2020
Ambient Temperature (°C) : 36.0
Average Flow Rate of SPM (m³/min.) : 1.1
Average Flow Rate of Gases (lpm) : 1.0
Weather Conditions : Clear
Remark (if any) : NA

RESULTS

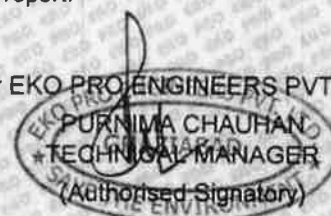
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	51.2	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	34.2	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	8.14	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	16.1	µg/m ³	80.0

Notes :

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TEST REPORT**Ambient Air Quality Monitoring**

Test Report No. : EKO/147/040920

Issue Date : 09/09/2020

Issued To

: Odisha Cement Plant
 (A Unit Of Shree Cement Ltd.)
 Village - Chandraball, Shyampur
 Block- Athagarh,
 District- Cuttack, Odisha

Sample Description : Ambient Air
 Sample Drawn on : 02/09/2020 To 03/09/2020
 Sample Drawn by : EPEPL (Mr. Harish Kumar)
 Sample Received on : 04/09/2020
 Sampling Location : Near Switch Yard
 Sampling Time : 24.0 Hrs.
 Sampling Plan & Procedure : SOP-AAQ/15
 Analysis Duration : 04/09/2020 To 08/09/2020
 Ambient Temperature (°C) : 34.0
 Average Flow Rate of SPM (m³/min.) : 1.1
 Average Flow Rate of Gases (lpm) : 1.0
 Weather Conditions : Clear
 Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	54.7	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	30.5	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	6.89	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	15.7	µg/m ³	80.0

Notes :

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For EKO PRO ENGINEERS PVT. LTD.

PURNIMA CHAUHAN
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TEST REPORT**Ambient Air Quality Monitoring**

Test Report No. : EKO/148/040920

Issue Date : 09/09/2020

Issued To

: Odisha Cement Plant
(A Unit Of Shree Cement Ltd.)
Village - Chandraball, Shyampur
Block- Athagarh,
District- Cuttack, Odisha

Sample Description : Ambient Air
Sample Drawn on : 02/09/2020 To 03/09/2020
Sample Drawn by : EPEPL (Mr. Harish Kumar)
Sample Received on : 04/09/2020
Sampling Location : Near Diesel Pump
Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15
Analysis Duration : 04/09/2020 To 08/09/2020
Ambient Temperature (°C) : 34.0
Average Flow Rate of SPM (m³/min.) : 1.1
Average Flow Rate of Gases (lpm) : 1.0
Weather Conditions : Clear
Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	51.3	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	29.4	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	7.28	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	14.3	µg/m ³	80.0

Notes :

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TEST REPORT**Ambient Air Quality Monitoring****Test Report No. : EKO/149/040920****Issue Date : 09/09/2020**

Issued To

: Odisha Cement Plant
(A Unit Of Shree Cement Ltd.)
Village - Chandraball, Shyampur
Block- Athagarh,
District- Cuttack, Odisha

Sample Description : Ambient Air
Sample Drawn on : 02/09/2020 To 03/09/2020
Sample Drawn by : EPEPL (Mr. Harish Kumar)
Sample Received on : 04/09/2020
Sampling Location : Near Pond
Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15
Analysis Duration : 04/09/2020 To 08/09/2020
Ambient Temperature (°C) : 34.0
Average Flow Rate of SPM (m³/min.) : 1.1
Average Flow Rate of Gases (lpm) : 1.0
Weather Conditions : Clear
Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	52.8	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	33.5	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	6.82	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	11.3	µg/m ³	80.0

Notes :

1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
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For EKO PRO ENGINEERS PVT. LTD.

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TEST REPORT**Ambient Air Quality Monitoring**

Test Report No. : EKO/150/040920

Issue Date : 09/09/2020

Issued To

: Odisha Cement Plant
 (A Unit Of Shree Cement Ltd.)
 Village - Chandraball, Shyampur
 Block- Athagarh,
 District- Cuttack, Odisha

Sample Description : Ambient Air
 Sample Drawn on : 02/09/2020 To 03/09/2020
 Sample Drawn by : EPEPL (Mr. Harish Kumar)
 Sample Received on : 04/09/2020
 Sampling Location : Near Clinker Tank
 Sampling Time : 24.0 Hrs.
 Sampling Plan & Procedure : SOP-AAQ/15
 Analysis Duration : 04/09/2020 To 08/09/2020
 Ambient Temperature (°C) : 34.0
 Average Flow Rate of SPM (m³/min.) : 1.1
 Average Flow Rate of Gases (lpm) : 1.0
 Weather Conditions : Clear
 Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	49.6	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	30.9	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	8.28	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	12.9	µg/m ³	80.0

Notes :

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For EKO PRO ENGINEERS PVT. LTD.

PURNIMA CHAUHAN
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 (Authorised Signatory)

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Contact No : 9711159210, 9711159427 SMS/Whatsapp No : 9711153422 E-mail : entail@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Water Sample Analysis

Test Report No : EKO/152/220520

Issue Date : 27/05/2020

Issued To

: ODISHA CEMENT PLANT (A UNIT OF SHREE CEMENT LTD.)

Village - Chandrabali, Shyampur

Block- Athagarh,

District- Chuttack, Odisha

Sample Description : Ground Water
Sample Drawn on : 20/05/2020
Sample Drawn by : EPEPL (Mr. Harish kumar)
Sample Received on : 22/05/2020
Sampling Location : Well No. 1, Village - Chandrabalishyampur, Odisha
Sampling Plan & Procedure : SOP-W/66
Sample Quantity : 1.0 Litre
Environmental Conditions : Normal
Analysis Duration : 22/05/2020 To 26/05/2020
Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per IS: 10500-2012 (Amd.No.2 Sep-2018)	
					Acceptable	Permissible
1	pH	IS: 3025 (P-11)	7.32	-	6.5-8.5	No relaxation
2	Total Hardness (as CaCO ₃)	IS: 3025 P-21)	128.0	mg/L	200.0	600.0
3	Calcium (as Ca)	IS: 3025 (P-40)	30.9	mg/L	75.0	200.0
4	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	1.0	No relaxation
5	Chloride (as Cl)	IS: 3025 (P-32)	70.5	mg/L	250.0	1000.0
6	Fluoride (as F)	IS: 3025 (P-60)	<1.0	mg/L	1.0	1.5
7	Total Dissolved Solids	IS: 3025 (P-16)	348.0	mg/L	500.0	2000.0
8	Total Suspended Solids	IS: 3025 (P-17)	<5.0	mg/L	-	-
9	Magnesium (as Mg)	IS: 3025 (P-46)	12.4	mg/L	30.0	100.0
10	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.1	0.3
11	Sulphate (as SO ₄)	IS: 3025 (P-24)	31.4	mg/L	200.0	400.0
12	Nitrate (as NO ₃)	IS: 3025 (P-34)	1.09	mg/L	45.0	No relaxation
13	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	<0.001	mg/L	0.001	No relaxation
14	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
15	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
16	Total Chromium (as Cr)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.05	No relaxation
17	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23)	140.0	mg/L	200.0	600.0

Notes:

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The customer asked for the above tests only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory
- The test report will not be used for any publicity/legal purpose.
- The test samples will be disposed off after 15 days from the date of reporting of result, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
- Responsibility of the Laboratory is limited to the invoiced amount only.

****End of Report****

For EKO PRO ENGINEERS PVT. LTD.

PURNIMA CHAUHAN
TECHNICAL MANAGER

(Authorised Signatory)

**EKO PRO ENGINEERS PVT. LTD.**

Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No : 9711159210, 9711159427, SMS/Whatsapp No : 9711163422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT

Water Sample Analysis

Test Report No : EKO/154/220520

Issue Date : 27/05/2020

Issued To

: ODISHA CEMENT PLANT (A UNIT OF SHREE CEMENT LTD.)

Village - Chandraball, shyampur

Block- Athagarh,

District- Chuttack, Odisha

Sample Description : Ground Water
Sample Drawn on : 20/05/2020
Sample Drawn by : EPEPL (Mr. Harish kumar)
Sample Received on : 22/05/2020
Sampling Location : From Bore - 2 Near Fly Ash Silo
Sampling Plan & Procedure : SOP-W/66
Sample Quantity : 1.0 Litre
Environmental Conditions : Normal
Analysis Duration : 22/05/2020 To 26/05/2020
Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per IS: 10500-2012 (Amd.No.2 Sep-2018)	
					Acceptable	Permissible
1	pH	IS: 3025 (P-11)	7.34	-	6.5-8.5	No relaxation
2	Total Hardness (as CaCO ₃)	IS: 3025 P-21)	138.0	mg/L	200.0	600.0
3	Calcium (as Ca)	IS: 3025 (P-40)	33.3	mg/L	75.0	200.0
4	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	1.0	No relaxation
5	Chloride (as Cl)	IS: 3025 (P-32)	96.2	mg/L	250.0	1000.0
6	Fluoride (as F)	IS: 3025 (P-60)	<1.0	mg/L	1.0	1.5
7	Total Dissolved Solids	IS: 3025 (P-16)	390.0	mg/L	500.0	2000.0
8	Total Suspended Solids	IS: 3025 (P-17)	<5.0	mg/L	-	-
9	Magnesium (as Mg)	IS: 3025 (P-46)	13.4	mg/L	30.0	100.0
10	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.1	0.3
11	Sulphate (as SO ₄)	IS: 3025 (P-24)	42.6	mg/L	200.0	400.0
12	Nitrate (as NO ₃)	IS: 3025 (P-34)	1.28	mg/L	45.0	No relaxation
13	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	<0.001	mg/L	0.001	No relaxation
14	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
15	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
16	Total Chromium (as Cr)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.05	No relaxation
17	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23)	139.0	mg/L	200.0	600.0

Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
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****End of Report****

For EKO PRO ENGINEERS PVT. LTD.

PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)

**EKO PRO ENGINEERS PVT. LTD.**

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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
 Contact No. : 9711159210, 9711159427, SMS/Whatsapp No. : 9711153422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, Website : www.ekopro.in

TEST REPORT

Water Sample Analysis

Test Report No : EKO/155/220520

Issue Date : 27/05/2020

Issued To

: ODISHA CEMENT PLANT (A UNIT OF SHREE CEMENT LTD.)

Village - Chandrabalishyampur

Block - Athagarh,

District- Chuttack, Odisha

Sample Description : Ground Water
 Sample Drawn on : 20/05/2020
 Sample Drawn by : EPEPL (Mr. Harish kumar)
 Sample Received on : 22/05/2020
 Sampling Location : From Bore - 1 Near Clinker Silo
 Sampling Plan & Procedure : SOP-W/66
 Sample Quantity : 1.0 Litre
 Environmental Conditions : Normal
 Analysis Duration : 22/05/2020 To 26/05/2020
 Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per IS: 10500-2012 (Amd.No.2 Sep-2018)	
					Acceptable	Permissible
1	pH	IS: 3025 (P-11)	7.19	-	6.5-8.5	No relaxation
2	Total Hardness (as CaCO ₃)	IS: 3025 P-21)	134.0	mg/L	200.0	600.0
3	Calcium (as Ca)	IS: 3025 (P-40)	24.0	mg/L	75.0	200.0
4	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	1.0	No relaxation
5	Chloride (as Cl)	IS: 3025 (P-32)	81.4	mg/L	250.0	1000.0
6	Fluoride (as F)	IS: 3025 (P-60)	<1.0	mg/L	1.0	1.5
7	Total Dissolved Solids	IS: 3025 (P-16)	396.0	mg/L	500.0	2000.0
8	Total Suspended Solids	IS: 3025 (P-17)	<5.0	mg/L	-	-
9	Magnesium (as Mg)	IS: 3025 (P-46)	15.5	mg/L	30.0	100.0
10	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.1	0.3
11	Sulphate (as SO ₄)	IS: 3025 (P-24)	40.8	mg/L	200.0	400.0
12	Nitrate (as NO ₃)	IS: 3025 (P-34)	2.46	mg/L	45.0	No relaxation
13	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	<0.001	mg/L	0.001	No relaxation
14	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
15	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
16	Total Chromium (as Cr)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.05	No relaxation
17	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23)	160.0	mg/L	200.0	600.0

Notes:

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The customer asked for the above tests only.
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****End of Report****

For EKO PRO ENGINEERS PVT. LTD.

PURNIMA CHAUHAN
 TECHNICAL MANAGER
 (Authorised Signatory)



Contact : +91 - 9810243870

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TEST REPORT
Water Sample Analysis

Test Report No : EKO/153/220520

Issue Date : 27/05/2020

Issued To

: ODISHA CEMENT PLANT (A UNIT OF SHREE CEMENT LTD.)

Village - Chandraball, shyampur

Block- Athagarh,

District- Chuttack, Odisha

Sample Description : Ground Water
Sample Drawn on : 20/05/2020
Sample Drawn by : EPEPL (Mr. Harish kumar)
Sample Received on : 22/05/2020
Sampling Location : From Bore - 3 Near Truck Parking
Sampling Plan & Procedure : SOP-W/66
Sample Quantity : 1.0 Litre
Environmental Conditions : Normal
Analysis Duration : 22/05/2020 To 26/05/2020
Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per IS: 10500-2012 (Amd.No.2 Sep-2018)	
					Acceptable	Permissible
1	pH	IS: 3025 (P-11)	7.21	-	6.5-8.5	No relaxation
2	Total Hardness (as CaCO ₃)	IS: 3025 P-21)	132.0	mg/L	200.0	600.0
3	Calcium (as Ca)	IS: 3025 (P-40)	31.7	mg/L	75.0	200.0
4	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	1.0	No relaxation
5	Chloride (as Cl)	IS: 3025 (P-32)	89.6	mg/L	250.0	1000.0
6	Fluoride (as F)	IS: 3025 (P-60)	<1.0	mg/L	1.0	1.5
7	Total Dissolved Solids	IS: 3025 (P-16)	370.0	mg/L	500.0	2000.0
8	Total Suspended Solids	IS: 3025 (P-17)	<5.0	mg/L	-	-
9	Magnesium (as Mg)	IS: 3025 (P-46)	12.9	mg/L	30.0	100.0
10	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.1	0.3
11	Sulphate (as SO ₄)	IS: 3025 (P-24)	39.8	mg/L	200.0	400.0
12	Nitrate (as NO ₃)	IS: 3025 (P-34)	1.34	mg/L	45.0	No relaxation
13	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	<0.001	mg/L	0.001	No relaxation
14	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
15	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
16	Total Chromium (as Cr)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.05	No relaxation
17	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23)	150.0	mg/L	200.0	600.0

Notes:

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****End of Report****

For EKO PRO ENGINEERS PVT. LTD.

PURNIMA CHAUHAN
* TECHNICAL MANAGER *
(Authorised Signatory)

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: 29th August, 2019

ENVIRONMENT MANAGEMENT SYSTEM

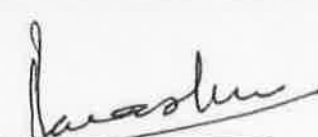
1. LEGAL & OTHER REQUIREMENTS

- 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: 29th 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, covered 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

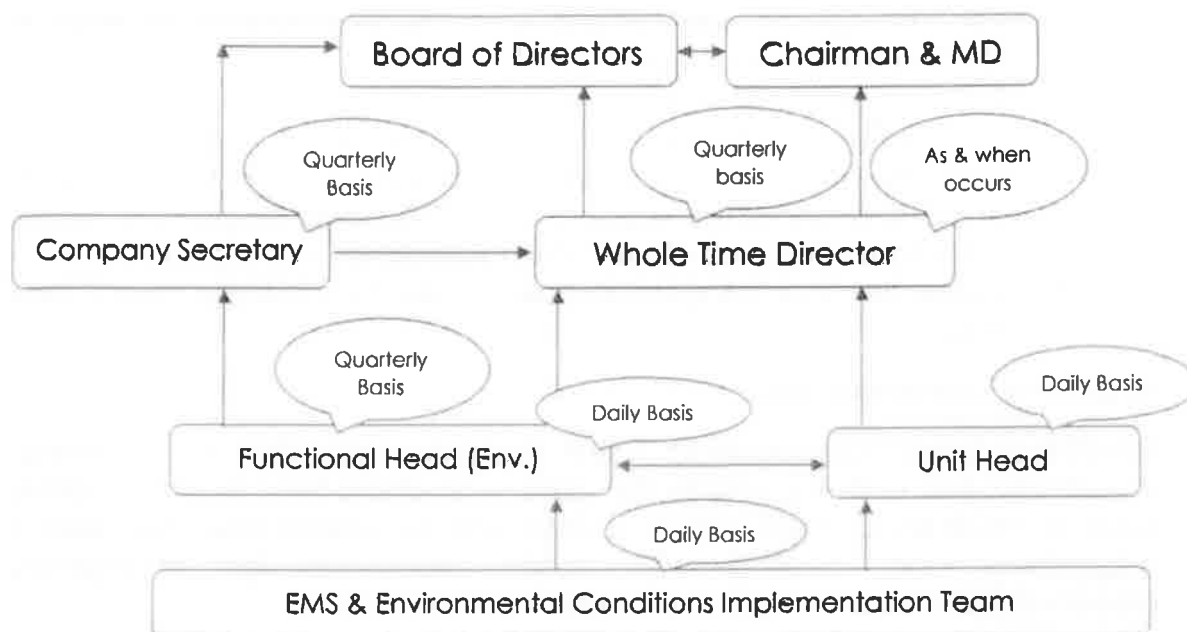
Date: 29th August, 2019

- 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 (if 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 supervision of unit head.

Signature 
(P.N.Chhangani)
Whole Time Director

Date: 29th August, 2019

ORGANIZATIONAL STRUCUTRE



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: 29th 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
Contact No. 9116667498, (91)1462-228101-064.

Signature


(P. N. Chhangani)**Whole Time Director**Date: 29th August, 2019

Annexure-4**Expenditure for Environment Protection measures April-2020 to September-2020**

S. No.	Environment Expenditure	2019-20	2020-21 (Upto Sep-20)
1	Sewage Treatment Plant	2,470,000	0
2	Rates & Taxes	1,787,280	0
3	Road Sweeping Machine	1,825,000	
4	R&M of Road Sweeping M/c	24,910	4,761
5	Plantation & related exp	48,313	192,984
6	Environment Monitoring Equipment	18,575,000	2,400,000
7	Technical Consultancy	0	0
8	Water Treatment Plant	0	0
	Total in Rs.	24,730,504	2,597,745

Annexure-5

Details of CSR Work done April-2020 to September-2020			
Sl. No.	Description	Amount (Rs.)	No. of Benefeciries
1	Expenses for BALI YATRA at Cuttack	357,325	100000 Persons
2	Donation for Baruni Yatra -2020 Kakhadi Village	25,000	20000 villagers attended the function
3	Financial assistance to Independence Day Celebration Committee Athagarh.	10,000	15000 Villagers
TOTAL in Rs.		392,325	