

SCL/EC/ENV/2023-24/157

29th November 2023.

To,

Ministry of Environment, Forest and Climate Change,
Eastern Regional Office (EZ),
A/3, Chandrasekharpur,
Bhubaneswar- 751023
E-mail: roez.bsr-mef@nic.in

Sub : Half yearly Compliance report of M/s Shiva Cement Limited for the period April-2023 to September-2023.

Ref: 1) Environmental Clearance No: F.NO. J-11011/84/2008-IA II(I), Dt: 23.03.2022

Dear Sir,

With reference to the above-mentioned letters for the said subject matter, please find enclosed herewith the compliance to the conditions stipulated in the letters for the period April-2023 - ~~September~~ 2023 for your kind reference. The Said Period compliance is also being E-mailed on roez.bsr-mef@nic.in.

Soft copy of this Compliance Report as well as the Environment data month wise are also uploaded in our official website: www.shivacement.com.

Thanking you,
Yours Faithfully,

FOR M/S SHIVA CEMENT LIMITED


(ANIL MISHRA)
UNIT HEAD

Copy to:

- 1) Zonal Office, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107 (W. B.)
- 2) The Member Secretary, State Pollution Control Board, Odisha, Parivesh Bhawan, A/118, Unit 8, Nilakantha Nagar, Nayapalli, Bhubneswar-751012.
- 3) The Regional Officer State Pollution Control Board, Odisha, Panposh, Rourkela, Sundergarh- 769004.

ENVIRONMENT CLEARANCE COMPLIANCE STATUS REPORT OF CEMENT PLANT

PERIOD: April - 2023 to September- 2023

(Unit-Shiva Cement Limited)

Address

**VILLAGE: TELIGHANA PO: BIRINGATOLI, TEHSIL: KUTRA,
DIST. SUNDARGARH (ODISHA),770018**

Compliance Report

| | |
|------------------------------------|---|
| Name of Project | Expansion of Cement Plant with Increase of Clinker Production from 0.165 MTPA to 3.00 MTPA and Cement from 0.252 MTPA to 2.00 MTPA (OPC/PPC/PSC/Composite Cement/GGBS) along with installation of 12 MW |
| Clearance Letter No. | J-11011/84/2008- IA II (I) |
| EC Identification No. | EC22A009OR124706 |
| Period of Compliance Report | April-2023 to September-2023 |

Compliance report of conditions stipulated in the Environment clearance

1. ENVIRONMENT CLEARANCE NO J-11011/84/2008-IA II (I) dated 23.03.2022

| A. Specific Conditions | | | | | | | | |
|--|---|--|---------------|---------------|---------------|---------------|---------------|----------------|
| Sl. No. | Conditions | Present Status | | | | | | |
| i | Overhead belt conveyor for transportation of Limestone from the mines to the plant site shall be established in a time frame of three years from the date of issue of Environment Clearance after obtaining requisite statutory permissions from the concerned competent authority. Thereafter, road transportation of limestone from the mines to the plant site is not permitted. | The unit is in progress of obtaining statutory permissions from the concerned competent authority. Once the permissions will obtain overhead belt conveyor for transportation of limestone from the mines to plant site will be done within the given time frame. (Details of permissions given in Annexure-I) | | | | | | |
| ii | Particulate matter emissions from all the stacks shall be less than 30 mg/Nm ³ | Particulate matter emission from all the stacks is within the permissible limit. (Table-1 & Figure-1 showing the stack emission report from April-23 to Sept-23) | | | | | | |
| TABLE-1 | | | | | | | | |
| Stack Emission report (April-2023 to September -2023) | | | | | | | | |
| Stack attached to | | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Average |
| Kiln/ Raw Mill | PM | 4 | 8 | 11.4 | 12 | 25.8 | 27.1 | 26.45 |
| | NO _x | 212 | 79 | 82 | 303 | 288 | 303 | 295.5 |
| | SO ₂ | 14 | 66 | 68 | 20 | 34.6 | 20.4 | 27.5 |
| Clinker Cooler | PM | 8 | 11 | 10.8 | 13 | 11.3 | 11.2 | 11.25 |
| Coal Mill | PM | 22 | 14 | 13.8 | 12 | 15.4 | 18.0 | 16.715 |

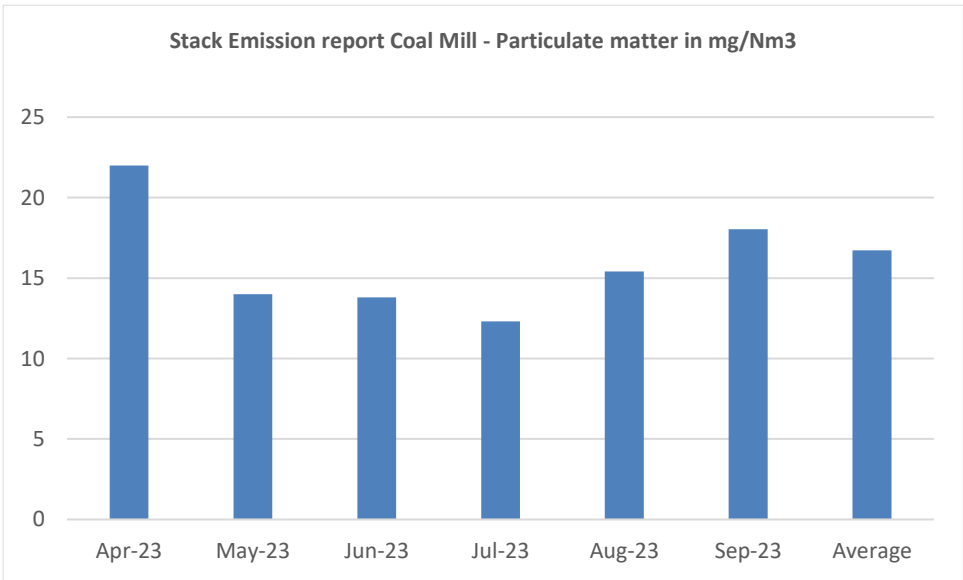
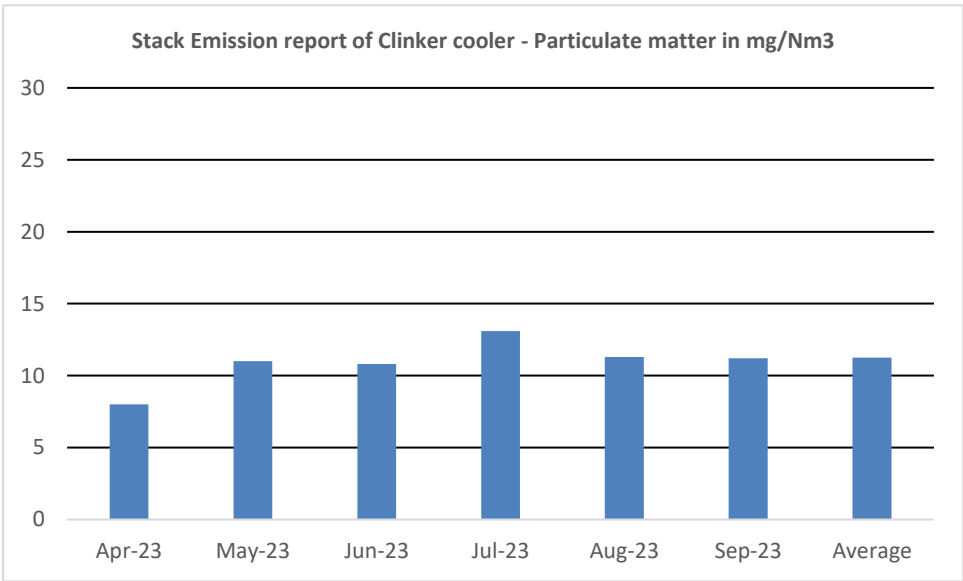
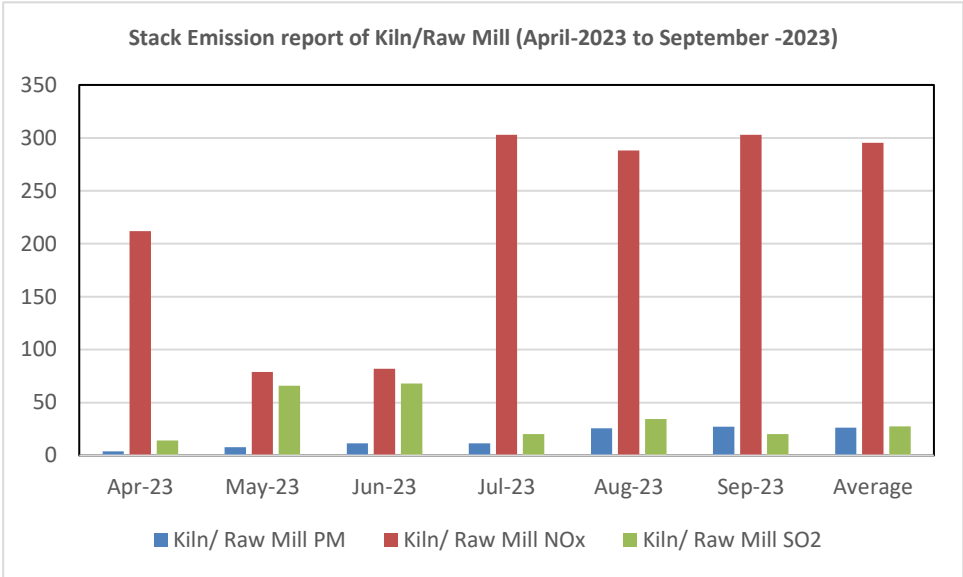


FIGURE-1

iii

Three tier Green Belt shall be developed in a time frame of one year covering 10.32 ha area with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. This shall include development of green belt with a width of 20 m within the project site towards Telighana Village located at 650 m in South and Kandeimunda Village located at 100 m in NE. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

The unit is developing three tier green belt with native species all along the periphery of the project site.

Three tier green belt is being developed in the plant periphery & existing area of the plant premises. 1748 numbers of sapling have been planted during the period of April-23 to September-23 (Table-2 & Figure-2).

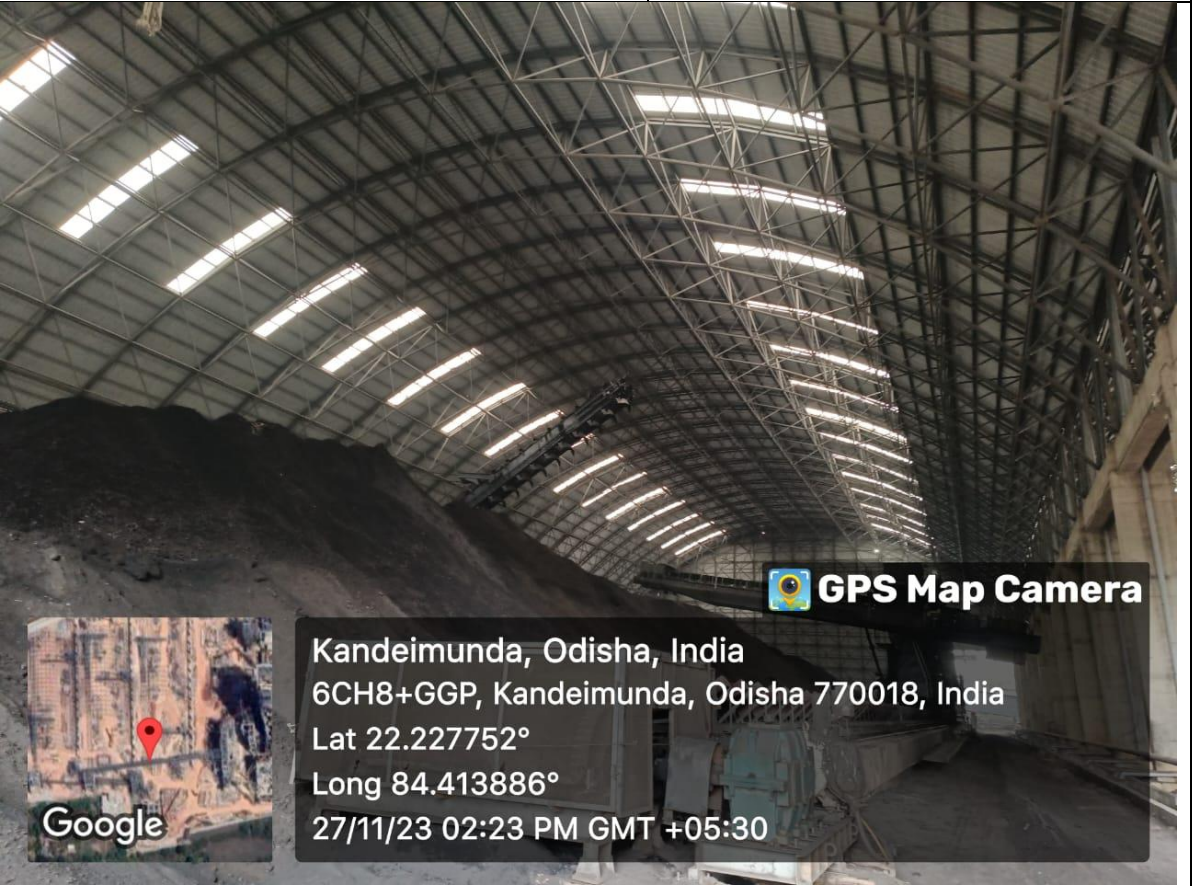
Survival rate of the plantation is being monitoring by the internal horticulture team on regular basis.

The unit is in progress of developing green belt of width 20m within the project site towards the Telighana village located at 650m in south and Kandeimunda village located at 100m in NE.

Plantation details for the Period April-23 to September-23

| Sl. No | Common Name | Botanical Name | Total no. |
|--------------|---------------|-------------------------|-------------|
| 1 | Chhatian | Alstonia scholaris | 239 |
| 2 | Krushnachuda | Delonix regia | 111 |
| 3 | Radhachuda | Peltophorum petrocarpum | 175 |
| 4 | Neem | Azadirachta indica | 213 |
| 5 | Bakul | Mimusops elengi | 287 |
| 6 | Spathodea | Spathodea campanulata | 111 |
| 7 | Begonia | Semperflorens cultorum | 122 |
| 8 | Conocapus | Conocarpus erectus | 427 |
| 9 | Bottlebrushes | Callistemon | 63 |
| Total | | | 1748 |

TABLE -2**FIGURE-2**

| | | |
|--|--|---|
| iv | 1990 KLD of water requirement after the proposed expansion shall be met from mine pit water source. No ground water abstraction is permitted except for domestic purposes. | Present water requirement is 688 m ³ /day which is being sourced from ground water. However, 1990 KLD of water will required during the Production of Clinker 3.0 MTPA and Cement 2.0 MTPA & same will be sourced from mines dewatering. |
| v | All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material | All stock yards have the impervious floor & garland drain has been constructed in all along the stock yard. Necessary water sprinkling arrangement has been made for dust suppression (Figure-3). |
|  <p style="text-align: center;">FIGURE-3</p> | | |
| vi | Slip roads shall be provided at the gates and along crossings on main roads. | Slip roads were provided at the gates and along crossing on main roads. |
| vii | All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines. | All the internal and connecting roads to the highway are concreted with suitable load in term of Million standard axle (MSA) as per IRC guideline (Figure-4 &5). |

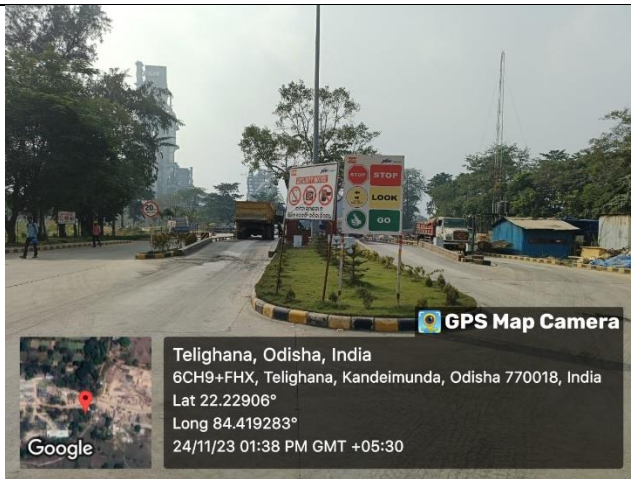


FIGURE-4

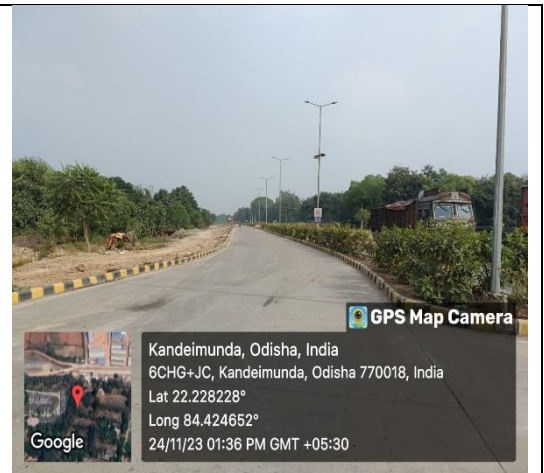


FIGURE-5

| | | |
|------|---|--|
| viii | Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF &CC. | The unit was commissioned in February 2023. Hence after February 2024 performance monitoring of all the pollution control equipment's will be done and the compliance status reports will be shared with the MoEF & CC Regional office, Bhubaneswar. |
| ix | Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC. | Noted. Only after obtaining consent to operate for co-processing of hazardous waste, the hazardous waste will be used and dioxin and furans will be monitored and the report will be submitted to the Regional office of the MoEF& CC. |
| x | Project proponent shall develop separate drainage system for storm water and industrial waste water and effectively prevent the pollution of natural waterbody. | The unit has constructed separate drainage system for storm water and industrial waste water. The unit is ensuring zero liquid discharge. Hence no natural waterbody will get polluted due to the operation of our unit. |
| xi | Compensatory afforestation shall be done in consultation with DFO for the 530 trees going to be removed from the project site as per State Government norms. | After due permission from Forest Department/revenue department, unit will transplant/remove the 530 trees present in the area in which plant and machinery will be installed. Compensatory forestation will be done in consultation with DFO with native species. |

B. General Conditions

I. Statutory Compliance

| Sl.No. | Conditions | Present Status |
|--------|---|----------------|
| i | The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of | Noted. |

the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project

II. Air quality monitoring and preservation

i The project proponent shall install 24x7 Continuous Emission Monitoring System (CEMS) at process stacks to monitor stack emission as well as 4 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be 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.

The unit has installed three continuous emission monitoring system (CEMS) in all its three major stacks i.e. (1) Coal Mill (2) Clinker Cooler (3) Kiln & Preheater.

The unit has installed four continuous ambient air quality monitoring station (CAAQMS) in four directions in consultation with regional Office (Figure-6,7,8 &9).

The CEMS and CAAQMS are connected to SPCB and CPCB server.



FIGURE-6



FIGURE-7



FIGURE-8



FIGURE-9

ii

The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986

Complied.
Fugitive emission monitoring is being carried out for our existing plant on quarterly basis through NABL approved laboratory. (Table-3 & Figure-10 showing fugitive emission report of different locations)

| Fugitive Emission Monitoring Report | | | | |
|--|--------------------------|-----------|---------------|---------------------------|
| Quarterly average report (in unit µg/m3) | | | | |
| Location → | Near Material Stock Yard | Near Kiln | Near raw mill | Near clinker bulk loading |
| | 412 | 334 | 381 | 416 |

TABLE-3

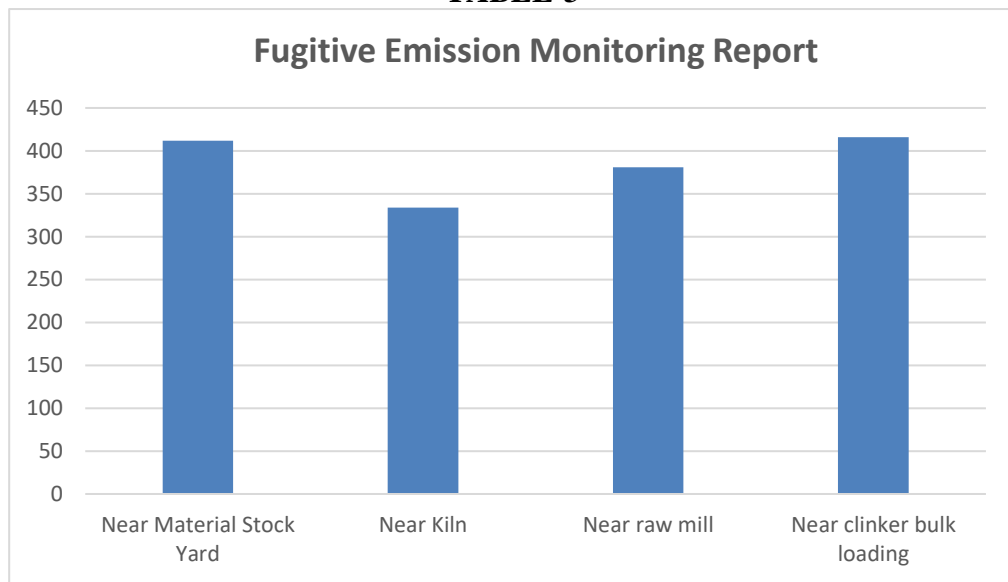


FIGURE-10

iii

The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

Complied.
Leakage detection and mechanized bag cleaning facilities are provided for better maintenance of bags.

iv

The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash;

Noted.
All transportation materials are covered with tarpaulin to prevent spillage and dust emission.

Fly ash will be transported in the closed bulkers only.


v


The project proponent shall provide wind shelter fence and chemical spraying on the raw material stock piles;

Complied.
Wind shelter fence is being provided at raw materials stock piles (Figure-11).
DSS (dust suppression system) has been installed in raw material yard.



Figure-11

| | | |
|--|--|---|
| |  <p style="text-align: center;">Figure-11</p> | |
| vi | <p>Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, and cement bagging plants.</p> | <p>Complied. Ventilation system have been provided in all closed houses. Ventilation systems are provided to all tunnels, motor houses for adequate air changes.</p> |
| <p>III. Water Quality Monitoring & Preservation</p> | | |
| I | <p>The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9thMay, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement)as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p> | <p>Effluent generated from the WHRS based power plant is being Neutralized in the Neutralization-Pit and the treated waste water is being utilized for dust suppression purposes.</p> |
| Ii | <p>The project proponent shall regularly monitor 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</p> | <p>Complied. Monitoring of ground water quality is being carried out on quarterly basis through NABL approved laboratory for our unit. The Environment monitoring report for the period April-23 to Sept-23 is attached as Annexure-II</p> |

| | | |
|---|--|---|
| iii | Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards. | The unit has installed 50KLD STP to treat domestic waste water (Figure-11). The treated water is being used for watering gardens and dust suppression. |
| <div style="text-align: center;">  <p>FIGURE-11</p> </div> | | |
| iv | 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 | Complied. Garland drain have been provided in all along the stock pile & same is connected to settling pit to arrest the run-off during the rainy season. |
| v | Water meters shall be provided at the inlet to all unit processes in the cement plant. | Flow meter are connected at all the inlets of processes in the cement unit. |
| vi | 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 | The unit is practising recycling and reusing of treated waste water. Hence, reducing consumptions of natural raw water. |
| vii | Tyre washing facilities shall be provided at the entrance and exit of the plant gates. | Tyre washing facilities is under construction and will be functioning by end of December 2023. |
| IV. Noise Monitoring and prevention | | |
| i | Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. | Complied. Noise monitoring is being carried out on monthly basis for our unit through NABL approved laboratory. (Table-4 & Figure-12) showing noise monitoring at different locations. |

| Noise Monitoring Report | | | | | | | | | | |
|-------------------------|----------------|-------------|------------------|-------------|---------------------------|-------------|--------------------|-------------|-------------------|-------------|
| Location → | Near Main Gate | | Near TG Building | | Clinker bulk loading area | | Colony Area of SCL | | Village Teleghana | |
| Month ↓ | Day dB(A) | Night dB(A) | Day dB(A) | Night dB(A) | Day dB(A) | Night dB(A) | Day dB(A) | Night dB(A) | Day dB(A) | Night dB(A) |
| Apr-23 | 53.4 | 43.8 | 55.2 | 44.4 | 54.3 | 44.1 | 49.8 | 42.7 | 50.1 | 43.6 |
| May-23 | 56.9 | 42.6 | 51.1 | 43.2 | 56.5 | 43.8 | 44.6 | 41.1 | 48.5 | 42.1 |
| Jun-23 | 60.7 | 52.4 | 54.2 | 48.8 | 58.9 | 52.6 | 44.4 | 41.5 | 46.8 | 42.8 |
| Jul-23 | 63.4 | 54.6 | 54.5 | 49.4 | 61.3 | 54.2 | 46.7 | 42.5 | 48.8 | 44.1 |
| Aug-23 | 72.8 | 64.6 | 64.6 | 59.3 | 64.2 | 59.6 | 51.7 | 44.9 | 49.9 | 45.7 |
| Sep-23 | 64.1 | 55.3 | 56.8 | 50.1 | 64.2 | 56.1 | 48.9 | 43.8 | 44.8 | 46.1 |

TABLE-4

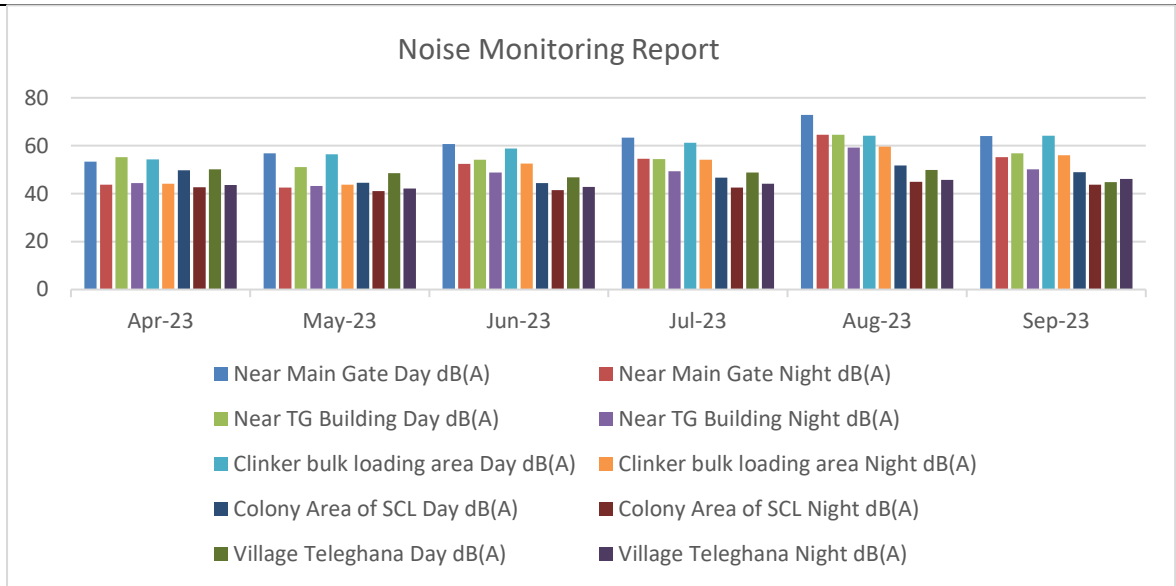


FIGURE-12

V. Energy Conservation Measures

| | | |
|-----|--|--|
| I | Waste heat recovery system shall be provided for kiln and cooler. | Complied. Unit has installed WHRB based power plant for Kiln and cooler section and from which unit will generate approx. 12 MW electricity. |
| ii | The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker. | Noted. The unit is designed in such a way to achieve best in class specific electrical energy consumption per tonne of Clinker/Cement. The unit is producing clinker at less than 670 Kcal/Kg of thermal energy consumption. |
| iii | 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 | Noted. The unit will install solar light system for all common area, street lights, parking around project area. |
| Iv | Provide the project proponent for LED lights in their offices and residential areas. | Complied. The unit has installed LED lights in office and residential areas. |

VI. Waste Management

| | | |
|---|---|--|
| i | Used refractories shall be recycled as far as possible | Used refractories are sold to recyclers. |
| VII. Greenbelt | | |
| I | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises. | The GHG emission inventory for the plant for scope-1 is 243138 T of CO ₂ and for scope-2 is 416497 T of CO ₂ . The unit is going to implementing OLBC (Over land belt conveyor) to reduce vehicular movement and EV to reduce CO ₂ emission. |
| ii | Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames. | The unit will conduct decarbonisation program/study, which would essentially consist of companies carbon emission, carbon budget/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. After getting the study report unit will accordingly implement time bound action plan to reduce its carbon intensity and energy transition pathway from fossil fuels to renewable energy will be prepared. |
| 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. | The unit has implemented emergency preparedness plan based on the Hazardous identification and risk assessment (HIRA) and disaster management plan. |
| ii | The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms | Complied. All mandatory PPEs are provided during working in high temperature zone. |
| iii | Occupational health surveillance of the workers shall be done on a regular basis and records maintained | Occupational health surveillance of the workers is being carried out periodically and records are maintained in Form No. 31-A, prescribed under rule 62- I. |
| IX. Environment Management | | |
| I | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed | Noted. We will abide by the said conditions. The detail action plan & budget allocation for need based activities is attached as Annexure-III However, the CSR based activities carried out is attached as Annexure-IV |
| ii | The company shall have a well laid down | Complied. |

| | | |
|-------------------------|---|---|
| | environmental policy duly approve by the Board of Directors. The environmental policy should prescribe 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 / forest / wildlife norms / conditions and / or stakeholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report. | The Environmental Policy is available and copy is attached as Annexure V |
| iii | A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization | Complied. A separate Environment Cell is already in placed with qualified personnel under the control of Unit Head. A separate environment cell has been established at corporate as well as plant level under the leadership of senior executive. |
| X. Miscellaneous | | |
| i | The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost 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. | Complied. The advertisement clips of Environmental clearance granted is published in two local papers that is The Pioneer (English News Paper) and Prameya (Odiya News Paper) on 29.03.2022. The advertisement clips were submitted to ministry on dated 15.04.2022 vide letter no. Shiva/SCL-Plant/EC/2022-01. The paper clip is attached as Annexure-VI |
| ii | The copies of the environmental 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. | Complied. The Environmental clearance copy has been submitted to all the relevant office and the Heads of local bodies, Panchayats and Municipal Bodies. The copy is attached as Annexure-VII |
| iii | The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis | Complied. The unit is regularly uploading the compliance status of the stipulated environment clearance conditions. https://shivacement.com/sustainability/ |
| iv | The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or | Complied. The unit is monitoring the pollutants level of PM10, SO2, NOx in ambient |

| | |
|--|---|
| <p>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</p> | <p>air quality and stack emission as indicated for the projects and displaying the same through LED display board installed Infront of the main gate (Figure-10).</p> |
|--|---|



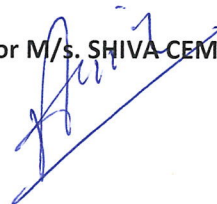
FIGURE -10

| | | |
|------------|---|---|
| <p>v</p> | <p>The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.</p> | <p>The unit is submitting six monthly compliance status of the stipulated environmental condition on the website each time.</p> |
| <p>vi</p> | <p>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 the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.</p> | <p>Complied. The unit is submitting the environment statement every year in form-V to the concerned State pollution control board as prescribed under the Environment (Protection) Rules, 1986. The unit has submitted last environment statement through letter no. SCL/2023/Form-V/153 on dated 27.09.2023.</p> |
| <p>vii</p> | <p>The project proponent shall inform the Regional Office as well as the Ministry, the date of</p> | <p>The project proponent has informed the Regional office as well as the ministry,</p> |

| | | |
|------|---|--|
| | 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. | the date of financial closure and final approval of the project is 27.11.2019. Commencing of land development work started on 22.10.2020 and the date of start of production is in the month of June 2023. |
| viii | 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 Expert Appraisal Committee | The unit will abide by the said conditions. The detail action plan & budget allocation for need based activities is attached as Annexure-III However, the CER based activities carried out for the period is attached as Annexure-IV |
| ix | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC). | Noted. Expansion and modification in plant will be done with prior approval from the Ministry |
| x | Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986. | Noted. |
| xi | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory | Noted. |
| xii | The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions | Noted. |
| xiii | The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports. | Noted |
| xiv | Any appeal against this EC 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. |
| 7. | This issues with the approval of the Competent Authority | Noted |

100

For M/s. SHIVA CEMENT LIMITED



(AUTHORISED SIGNATORY)

Annexure-I

Status of land acquisition for OLBC

LAND: FOR PLANT & OLBC TOTAL LAND REQUIREMENT IS 107.95 ACRES (100.77 ACRES-PVT. LAND + 2.39 ACRES FOREST LAND + 4.79 ACRES GOVT. LAND)

| Activity | Present Status (as on 30-09-2023) |
|--|---|
| Project approval by IPICOL | Completed |
| Recommendation to IDCO by IPICOL for land | Completed |
| Scrutiny of Land records by IDCO | Completed |
| NOC from 5 irrigation deptts & Geology deptt initiated by IDCO | Completed |
| Administrative approval from Industry Deptt, Steel & Mines Deptt. To start the land acquisition process | Obtained |
| Recommendation by IDCO, Steel & Mines Deptt. and District Administration to start the Land Acquisition process | Has been recommended to District Administration by IDCO |
| District Administration to start the Land Acquisition process as per land Acquisition Act. | Started |
| Posting of data in LARRMS | Completed |
| District Land acquisition deptt. shall scrutinize the land records and will proceed for 4 (1) notification. | Preliminary Scrutinization of land record has been completed by district administration. Now the scrutinize file has been sent to IDCO for regularisation. Post regularisation file shall be sent to NCBS as per 4(1) notifications by district administration. |



Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

GROUND WATER LEVEL MONITORING REPORT

PROJECT SITE: **CEMENT PLANT**

CLIENT: **M/s SHIVA CEMENT LIMITED, Vill: TELEGHANA, At: BRINGATOLI, KUTRA, DIST: SUNDARGARH: 770018, ODISHA**

Ground Water Levels are measured from existing Wells on 29th April 2023 for the month from the following mentioned points and data thus recorded are as follows:

| SI No | Location | MP to GL (m) | TDBMP (m) | WLBGL (m) | GL (m) | WLAMSL (m) |
|-------|--|--------------|-----------|-----------|--------|------------|
| 1 | Bore Well Back Side of Cement Mill Within Plant | 0.15 | - | 25.75 | - | - |
| 2 | Bore Well Back Side of Coal Yard Within Plant 22° 13' 46.4" N – 84° 25' 02.5" E | 0.50 | - | 6.16 | - | - |
| 3 | Bore Well Back Side of Kiln Within Plant 22° 16' 31.0" N – 84° 27' 08.6" E | 0.10 | - | 14.45 | 242.0 | 231.85 |

MP : Measuring Point
GL : Ground Level
TDBMP : Total Depth Below Measuring Point
WLBGL : Water Level Below Ground Level
WLAMSL : Water Level Above Mean Sea Level


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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR - TC68162300001185F
REPORT NO: CPL/RW/MAY-23/60

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
Sample ID No : **CPL/W/MAY-23/27**
Date of Sampling : 13.05.2023
Sample Description : Ground Water
Location of Sampling : Tube Well Village Kutra
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 13.05.2023
Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|--|---|------------------|-------|--|
| 1 | Turbidity | APHA 23 rd Edition, 2130 B | 1.1 | NTU | 1.0 |
| 2 | pH Value | APHA 23 rd Edition, 4500 H+B | 6.55 | - | 6.5 – 8.5 |
| 3 | Total Hardness (as CaCO ₃) | APHA 23 rd Edition, 2340 C | 123.48 | mg/l | 200 |
| 4 | Iron (as Fe) | APHA 23 rd Edition, 3500 Fe B | 0.24 | mg/l | 0.3 |
| 5 | Chlorides (as Cl) | APHA 23 rd Edition, 4500 Cl B | 31.99 | mg/l | 250 |
| 6 | Total Dissolved Solids | APHA 23 rd Edition, 2540 B | 195 | mg/l | 500 |
| 7 | Electrical Conductivity | APHA 23 rd Edition, 2510 B | 324 | µS/cm | - |
| 8 | Calcium (as Ca) | APHA 23 rd Edition, 3500 Ca B | 37.94 | mg/l | 75 |
| 9 | Magnesium (as Mg) | APHA 23 rd Edition, 3500 Mg B | 7.0 | mg/l | 30 |
| 10 | Copper (as Cu) | APHA 23 rd Edition, 3111 B | < 0.10 | mg/l | 0.05 |
| 11 | Manganese (as Mn) | APHA 23 rd Edition, 3500 Mn B | < 0.05 | mg/l | 0.1 |
| 12 | Sulfate (as SO ₄) | APHA 23 rd Edition, 4500 SO ₄ ²⁻ E | 4.89 | mg/l | 200 |
| 13 | Total Nitrate (as NO ₃) | APHA 23 rd Edition, 4500 NO ₃ B | 4.06 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | APHA 23 rd Edition, 2320 B | 92 | mg/l | 200 |
| 15 | Acidity | APHA 23 rd Edition, 2310 B | 08 | mg/l | - |
| 16 | Sulphide (as H ₂ S) | APHA 23 rd Edition, 4500 S ²⁻ D | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | APHA 23 rd Edition, 3500 Na B | 14.7 | mg/l | - |
| 18 | Potassium (as K) | APHA 23 rd Edition, 3500 K B | 8.07 | mg/l | - |
| 19 | Fluoride (as F) | APHA 23 rd Edition, 4500 F D | < 0.05 | mg/l | 1.0 |

Test Done By



Authorized Signatory
Subhanga Praharaj
Managing Director

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR – TC681623000001185F
REPORT NO: CPL/RW/MAY-23/60

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/MAY-23/27**
 Date of Sampling : 13.05.2023
 Sample Description : Ground Water
 Location of Sampling : Tube Well Village Kutra
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 13.05.2023
 Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|------------------------|---------------------------------------|------------------|------|--|
| 20 | Cadmium (as Cd) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | APHA 23 rd Edition, 3114 B | ND | mg/l | 0.01 |
| 23 | Mercury (as Hg) | APHA 23 rd Edition, 3112 B | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | APHA 23 rd Edition, 3114 C | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | APHA 23 rd Edition, 3111 B | ND | mg/l | 5.0 |
| 27 | Total Chromium (as Cr) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.05 |

ND: Non Detectable.

Test Done By

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Managing Director

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

REPORT NO: CPL/R/W/MAY-23/60N

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/MAY-23/27**
 Date of Sampling : 13.05.2023
 Sample Description : Ground Water
 Location of Sampling : Tube Well Village Kutra
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 13.05.2023
 Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|------------------------|---------------------------------------|------------------|-----------|--|
| 1 | Colour | APHA 23 rd Edition, 2120 B | < 5 | Hazen | 5 |
| 2 | Odour | APHA 23 rd Edition, 2150 B | Agreeable | - | Agreeable |
| 3 | Taste | APHA 23 rd Edition, 2160 B | Agreeable | - | Agreeable |
| 4 | Temperature | APHA 23 rd Edition, 2550 B | 29.4 | °C | - |
| 5 | Residual Free Chlorine | MERCK | 0.05 | mg/l | 0.2 (min) |
| 6 | Total Bacterial Count | RAKIRO | Absent | Nos/100ml | Absent |
| 7 | E coli | RAKIRO | Absent | Nos/100ml | Absent |

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Managing Director

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/WM/60

ULR – TC681623000001186F
REPORT NO: CPL/R/W/MAY-23/61

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
Sample ID No : **CPL/W/MAY-23/29**
Date of Sampling : 13.05.2023
Sample Description : Ground Water
Location of Sampling : Bore Well Village Sialjor
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 13.05.2023
Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|--|---|------------------|-------|--|
| 1 | Turbidity | APHA 23 rd Edition, 2130 B | 0.40 | NTU | 1.0 |
| 2 | pH Value | APHA 23 rd Edition, 4500 H+B | 7.32 | - | 6.5 – 8.5 |
| 3 | Total Hardness (as CaCO ₃) | APHA 23 rd Edition, 2340 C | 214.03 | mg/l | 200 |
| 4 | Iron (as Fe) | APHA 23 rd Edition, 3500 Fe B | 0.21 | mg/l | 0.3 |
| 5 | Chlorides (as Cl) | APHA 23 rd Edition, 4500 Cl B | 8.99 | mg/l | 250 |
| 6 | Total Dissolved Solids | APHA 23 rd Edition, 2540 B | 290 | mg/l | 500 |
| 7 | Electrical Conductivity | APHA 23 rd Edition, 2510 B | 460 | µS/cm | - |
| 8 | Calcium (as Ca) | APHA 23 rd Edition, 3500 Ca B | 44.54 | mg/l | 75 |
| 9 | Magnesium (as Mg) | APHA 23 rd Edition, 3500 Mg B | 25 | mg/l | 30 |
| 10 | Copper (as Cu) | APHA 23 rd Edition, 3111 B | < 0.10 | mg/l | 0.05 |
| 11 | Manganese (as Mn) | APHA 23 rd Edition, 3500 Mn B | < 0.05 | mg/l | 0.1 |
| 12 | Sulfate (as SO ₄) | APHA 23 rd Edition, 4500 SO ₄ ²⁻ E | 11.01 | mg/l | 200 |
| 13 | Total Nitrate (as NO ₃) | APHA 23 rd Edition, 4500 NO ₃ B | 4.19 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | APHA 23 rd Edition, 2320 B | 196 | mg/l | 200 |
| 15 | Acidity | APHA 23 rd Edition, 2310 B | 08 | mg/l | - |
| 16 | Sulphide (as H ₂ S) | APHA 23 rd Edition, 4500 S ²⁻ D | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | APHA 23 rd Edition, 3500 Na B | 18.78 | mg/l | - |
| 18 | Potassium (as K) | APHA 23 rd Edition, 3500 K B | 10.12 | mg/l | - |
| 19 | Fluoride (as F) | APHA 23 rd Edition, 4500 F D | < 0.05 | mg/l | 1.0 |

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR - TC681623000001186F
REPORT NO: CPL/RW/MAY-23/61

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/MAY-23/29**
 Date of Sampling : 13.05.2023
 Sample Description : Ground Water
 Location of Sampling : Bore Well Village Sialjor
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 13.05.2023
 Date of Test : 13.05.2023 - 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500:2012 |
|-------|------------------------|---------------------------------------|------------------|------|---------------------------------------|
| 20 | Cadmium (as Cd) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | APHA 23 rd Edition, 3114 B | ND | mg/l | 0.01 |
| 23 | Mercury (as Hg) | APHA 23 rd Edition, 3112 B | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | APHA 23 rd Edition, 3114 C | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | APHA 23 rd Edition, 3111 B | ND | mg/l | 5.0 |
| 27 | Total Chromium (as Cr) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.05 |

ND: Non Detectable.

Test Done By

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Managing Director

***** End of Test Report *****

Page 2 of 2

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

REPORT NO: CPL/RW/MAY-23/61N

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
Sample ID No : **CPL/W/MAY-23/29**
Date of Sampling : 13.05.2023
Sample Description : Ground Water
Location of Sampling : Bore Well Village Sialjor
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 13.05.2023
Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500:2012 |
|-------|------------------------|---------------------------------------|------------------|-----------|---------------------------------------|
| 1 | Colour | APHA 23 rd Edition, 2120 B | < 5 | Hazen | 5 |
| 2 | Odour | APHA 23 rd Edition, 2150 B | Agreeable | - | Agreeable |
| 3 | Taste | APHA 23 rd Edition, 2160 B | Agreeable | - | Agreeable |
| 4 | Temperature | APHA 23 rd Edition, 2550 B | 29.6 | °C | - |
| 5 | Residual Free Chlorine | MERCK | 0.08 | mg/l | 0.2 (min) |
| 6 | Total Bacterial Count | RAKIRO | Absent | Nos/100ml | Absent |
| 7 | E coli | RAKIRO | Absent | Nos/100ml | Absent |

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR – TC681623000001187F
REPORT NO: CPL/RW/MAY-23/62

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
Sample ID No : **CPL/W/MAY-23/28**
Date of Sampling : 13.05.2023
Sample Description : Ground Water
Location of Sampling : Bore Well Village Budhakata
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 13.05.2023
Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|--|---|------------------|-------|--|
| 1 | Turbidity | APHA 23 rd Edition, 2130 B | 1.2 | NTU | 1.0 |
| 2 | pH Value | APHA 23 rd Edition, 4500 H+B | 6.95 | - | 6.5 – 8.5 |
| 3 | Total Hardness (as CaCO ₃) | APHA 23 rd Edition, 2340 C | 283.73 | mg/l | 200 |
| 4 | Iron (as Fe) | APHA 23 rd Edition, 3500 Fe B | 0.28 | mg/l | 0.3 |
| 5 | Chlorides (as Cl) | APHA 23 rd Edition, 4500 Cl B | 50.98 | mg/l | 250 |
| 6 | Total Dissolved Solids | APHA 23 rd Edition, 2540 B | 343 | mg/l | 500 |
| 7 | Electrical Conductivity | APHA 23 rd Edition, 2510 B | 533 | µS/cm | - |
| 8 | Calcium (as Ca) | APHA 23 rd Edition, 3500 Ca B | 52.79 | mg/l | 75 |
| 9 | Magnesium (as Mg) | APHA 23 rd Edition, 3500 Mg B | 26 | mg/l | 30 |
| 10 | Copper (as Cu) | APHA 23 rd Edition, 3111 B | < 0.10 | mg/l | 0.05 |
| 11 | Manganese (as Mn) | APHA 23 rd Edition, 3500 Mn B | < 0.05 | mg/l | 0.1 |
| 12 | Sulfate (as SO ₄) | APHA 23 rd Edition, 4500 SO ₄ 2-E | < 0.50 | mg/l | 200 |
| 13 | Total Nitrate (as NO ₃) | APHA 23 rd Edition, 4500 NO ₃ B | 9.29 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | APHA 23 rd Edition, 2320 B | 180 | mg/l | 200 |
| 15 | Acidity | APHA 23 rd Edition, 2310 B | 12 | mg/l | - |
| 16 | Sulphide (as H ₂ S) | APHA 23 rd Edition, 4500 S ²⁻ D | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | APHA 23 rd Edition, 3500 Na B | 16.66 | mg/l | - |
| 18 | Potassium (as K) | APHA 23 rd Edition, 3500 K B | 8.44 | mg/l | - |
| 19 | Fluoride (as F) | APHA 23 rd Edition, 4500 F D | < 0.05 | mg/l | 1.0 |

Test Done By

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR – TC681623000001187F
REPORT NO: CPL/R/W/MAY-23/62

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/MAY-23/28**
 Date of Sampling : 13.05.2023
 Sample Description : Ground Water
 Location of Sampling : Bore Well Village Budhakata
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 13.05.2023
 Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|------------------------|---------------------------------------|------------------|------|--|
| 20 | Cadmium (as Cd) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | APHA 23 rd Edition, 3114 B | ND | mg/l | 0.01 |
| 23 | Mercury (as Hg) | APHA 23 rd Edition, 3112 B | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | APHA 23 rd Edition, 3114 C | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | APHA 23 rd Edition, 3111 B | ND | mg/l | 5.0 |
| 27 | Total Chromium (as Cr) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.05 |

ND: Non Detectable.

Test Done By

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Managing Director

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

REPORT NO: CPL/RW/MAY-23/62N

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/MAY-23/28**
 Date of Sampling : 13.05.2023
 Sample Description : Ground Water
 Location of Sampling : Bore Well Village Budhakata
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 13.05.2023
 Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|------------------------|---------------------------------------|------------------|-----------|--|
| 1 | Colour | APHA 23 rd Edition, 2120 B | < 5 | Hazen | 5 |
| 2 | Odour | APHA 23 rd Edition, 2150 B | Agreeable | - | Agreeable |
| 3 | Taste | APHA 23 rd Edition, 2160 B | Agreeable | - | Agreeable |
| 4 | Temperature | APHA 23 rd Edition, 2550 B | 29.4 | °C | |
| 5 | Residual Free Chlorine | MERCK | 0.06 | mg/l | 0.2 (min) |
| 6 | Total Bacterial Count | RAKIRO | Absent | Nos/100ml | Absent |
| 7 | E coli | RAKIRO | Absent | Nos/100ml | Absent |

Test Done By

Verified By



Authorized Signatory
Subhanga Praharaj
Managing Director

***** End of Test Report *****

Page 1 of 1

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Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR – TC681623000001188F
REPORT NO: CPL/RW/MAY-23/63

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/MAY-23/25**
 Date of Sampling : 13.05.2023
 Sample Description : Ground Water
 Location of Sampling : Bore Well Back Side of Kiln Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 13.05.2023
 Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|--|---|------------------|-------|--|
| 1 | Turbidity | APHA 23 rd Edition, 2130 B | 3.1 | NTU | 1.0 |
| 2 | pH Value | APHA 23 rd Edition, 4500 H+B | 6.04 | - | 6.5 – 8.5 |
| 3 | Total Hardness (as CaCO ₃) | APHA 23 rd Edition, 2340 C | 37.04 | mg/l | 200 |
| 4 | Iron (as Fe) | APHA 23 rd Edition, 3500 Fe B | 0.11 | mg/l | 0.3 |
| 5 | Chlorides (as Cl) | APHA 23 rd Edition, 4500 Cl B | 7.99 | mg/l | 250 |
| 6 | Total Dissolved Solids | APHA 23 rd Edition, 2540 B | 58 | mg/l | 500 |
| 7 | Electrical Conductivity | APHA 23 rd Edition, 2510 B | 91 | µS/cm | - |
| 8 | Calcium (as Ca) | APHA 23 rd Edition, 3500 Ca B | 11.54 | mg/l | 75 |
| 9 | Magnesium (as Mg) | APHA 23 rd Edition, 3500 Mg B | 1.99 | mg/l | 30 |
| 10 | Copper (as Cu) | APHA 23 rd Edition, 3111 B | < 0.10 | mg/l | 0.05 |
| 11 | Manganese (as Mn) | APHA 23 rd Edition, 3500 Mn B | < 0.05 | mg/l | 0.1 |
| 12 | Sulfate (as SO ₄) | APHA 23 rd Edition, 4500 SO ₄ ²⁻ E | < 0.50 | mg/l | 200 |
| 13 | Total Nitrate (as NO ₃) | APHA 23 rd Edition, 4500 NO ₃ B | < 2.20 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | APHA 23 rd Edition, 2320 B | 32 | mg/l | 200 |
| 15 | Acidity | APHA 23 rd Edition, 2310 B | 12 | mg/l | - |
| 16 | Sulphide (as H ₂ S) | APHA 23 rd Edition, 4500 S ²⁻ D | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | APHA 23 rd Edition, 3500 Na B | 4.16 | mg/l | - |
| 18 | Potassium (as K) | APHA 23 rd Edition, 3500 K B | 1.91 | mg/l | - |
| 19 | Fluoride (as F) | APHA 23 rd Edition, 4500 F D | < 0.05 | mg/l | 1.0 |

Test Done By

Verified By

Authorized Signatory
 Subhanga Praharaj
 Managing Director

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR - TC681623000001188F
REPORT NO: CPL/RW/MAY-23/63

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
Sample ID No : **CPL/W/MAY-23/25**
Date of Sampling : 13.05.2023
Sample Description : Ground Water
Location of Sampling : Bore Well Back Side of Kiln Area
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 13.05.2023
Date of Test : 13.05.2023 - 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|------------------------|---------------------------------------|------------------|------|--|
| 20 | Cadmium (as Cd) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | APHA 23 rd Edition, 3114 B | ND | mg/l | 0.01 |
| 23 | Mercury (as Hg) | APHA 23 rd Edition, 3112 B | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | APHA 23 rd Edition, 3114 C | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | APHA 23 rd Edition, 3111 B | ND | mg/l | 5.0 |
| 27 | Total Chromium (as Cr) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.05 |

ND: Non Detectable.

Test Done By

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Subhanga Praharaj
Managing Director

***** End of Test Report *****

Page 2 of 2

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Tele Fax: 0661 - 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

REPORT NO: CPL/RW/MAY-23/63N

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/MAY-23/25**
 Date of Sampling : 13.05.2023
 Sample Description : Ground Water
 Location of Sampling : Bore Well Back Side of Kiln Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 13.05.2023
 Date of Test : 13.05.2023 – 19.05.2023

| Sl No. | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|--------|------------------------|---------------------------------------|------------------|-----------|--|
| 1 | Colour | APHA 23 rd Edition, 2120 B | < 5 | Hazen | 5 |
| 2 | Odour | APHA 23 rd Edition, 2150 B | Agreeable | - | Agreeable |
| 3 | Taste | APHA 23 rd Edition, 2160 B | Agreeable | - | Agreeable |
| 4 | Temperature | APHA 23 rd Edition, 2550 B | 28.9 | °C | - |
| 5 | Residual Free Chlorine | MERCK | 0.10 | mg/l | 0.2 (min) |
| 6 | Total Bacterial Count | RAKIRO | Absent | Nos/100ml | Absent |
| 7 | E coli | RAKIRO | Absent | Nos/100ml | Absent |

Test Done By

Verified By



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Subhanga Praharaj
Managing Director

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Page 1 of 1

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR - TC68162300001189F
REPORT NO: CPL/RW/MAY-23/64

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
Sample ID No : **CPL/W/MAY-23/47**
Date of Sampling : 20.05.2023
Sample Description : Ground Water
Location of Sampling : Bore Well Near Cement Mill
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 20.05.2023
Date of Test : 20.05.2023 - 26.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500:2012 |
|-------|--|---|------------------|-------|---------------------------------------|
| 1 | Turbidity | APHA 23 rd Edition, 2130 B | 2.1 | NTU | 1.0 |
| 2 | pH Value | APHA 23 rd Edition, 4500 H+B | 5.96 | - | 6.5 - 8.5 |
| 3 | Total Hardness (as CaCO ₃) | APHA 23 rd Edition, 2340 C | 78.24 | mg/l | 200 |
| 4 | Iron (as Fe) | APHA 23 rd Edition, 3500 Fe B | 0.25 | mg/l | 0.3 |
| 5 | Chlorides (as Cl) | APHA 23 rd Edition, 4500 Cl B | 11.99 | mg/l | 250 |
| 6 | Total Dissolved Solids | APHA 23 rd Edition, 2540 B | 112 | mg/l | 500 |
| 7 | Electrical Conductivity | APHA 23 rd Edition, 2510 B | 182.3 | µS/cm | - |
| 8 | Calcium (as Ca) | APHA 23 rd Edition, 3500 Ca B | 21.44 | mg/l | 75 |
| 9 | Magnesium (as Mg) | APHA 23 rd Edition, 3500 Mg B | 6.0 | mg/l | 30 |
| 10 | Copper (as Cu) | APHA 23 rd Edition, 3111 B | < 0.10 | mg/l | 0.05 |
| 11 | Manganese (as Mn) | APHA 23 rd Edition, 3500 Mn B | < 0.05 | mg/l | 0.1 |
| 12 | Sulfate (as SO ₄) | APHA 23 rd Edition, 4500 SO ₄ ²⁻ E | 8.29 | mg/l | 200 |
| 13 | Total Nitrate (as NO ₃) | APHA 23 rd Edition, 4500 NO ₃ B | 8.08 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | APHA 23 rd Edition, 2320 B | 52 | mg/l | 200 |
| 15 | Acidity | APHA 23 rd Edition, 2310 B | 36 | mg/l | - |
| 16 | Sulphide (as H ₂ S) | APHA 23 rd Edition, 4500 S ²⁻ D | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | APHA 23 rd Edition, 3500 Na B | 4.38 | mg/l | - |
| 18 | Potassium (as K) | APHA 23 rd Edition, 3500 K B | 4.08 | mg/l | - |
| 19 | Fluoride (as F) | APHA 23 rd Edition, 4500 F D | 0.40 | mg/l | 1.0 |

Test Done By

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Managing Director

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR - TC681623000001190F
REPORT NO: CPL/RW/MAY-23/64

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/MAY-23/47**
 Date of Sampling : 20.05.2023
 Sample Description : Ground Water
 Location of Sampling : Bore Well Near Cement Mill
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 20.05.2023
 Date of Test : 20.05.2023 - 26.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|------------------------|---------------------------------------|------------------|------|--|
| 20 | Cadmium (as Cd) | APHA 23 rd Edition, 3111.B | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | APHA 23 rd Edition, 3111.B | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | APHA 23 rd Edition, 3114.B | ND | mg/l | 0.01 |
| 23 | Mercury (as Hg) | APHA 23 rd Edition, 3112.B | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | APHA 23 rd Edition, 3114.C | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | APHA 23 rd Edition, 3111.B | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | APHA 23 rd Edition, 3111.B | ND | mg/l | 5.0 |
| 27 | Total Chromium (as Cr) | APHA 23 rd Edition, 3111.B | ND | mg/l | 0.05 |

ND: Non Detectable.

Test Done By

Verified By



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Managing Director

***** End of Test Report *****

Page 2 of 2

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

REPORT NO: CPL/R/W/MAY-23/64N

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
Sample ID No : **CPL/W/MAY-23/47**
Date of Sampling : 20.05.2023
Sample Description : Ground Water
Location of Sampling : Bore Well Near Cement Mill
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 20.05.2023
Date of Test : 20.05.2023 – 26.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS:10500:2012 |
|-------|------------------------|---------------------------------------|------------------|-----------|---------------------------------------|
| 1 | Colour | APHA 23 rd Edition, 2120 B | < 5 | Hazen | 5 |
| 2 | Odour | APHA 23 rd Edition, 2150 B | Agreeable | - | Agreeable |
| 3 | Taste | APHA 23 rd Edition, 2160 B | Agreeable | - | Agreeable |
| 4 | Temperature | APHA 23 rd Edition, 2550 B | 31.7 | °C | - |
| 5 | Residual Free Chlorine | MERCK | 0.10 | mg/l | 0.2 (min) |
| 6 | Total Bacterial Count | RAKIRO | Absent | Nos/100ml | Absent |
| 7 | E coli | RAKIRO | Absent | Nos/100ml | Absent |

Test Done By

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR – TC681623000001190F
REPORT NO: CPL/R/W/MAY-23/65

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
Sample ID No : **CPL/W/MAY-23/26**
Date of Sampling : 13.05.2023
Sample Description : Ground Water
Location of Sampling : Bore Well Back Side of Coal Yard
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 13.05.2023
Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|--|---|------------------|-------|--|
| 1 | Turbidity | APHA 23 rd Edition, 2130 B | 0.40 | NTU | 1.0 |
| 2 | pH Value | APHA 23 rd Edition, 4500 H+B | 7.10 | - | 6.5 – 8.5 |
| 3 | Total Hardness (as CaCO ₃) | APHA 23 rd Edition, 2340 C | 246.96 | mg/l | 200 |
| 4 | Iron (as Fe) | APHA 23 rd Edition, 3500 Fe B | 0.24 | mg/l | 0.3 |
| 5 | Chlorides (as Cl) | APHA 23 rd Edition, 4500 Cl B | 22.99 | mg/l | 250 |
| 6 | Total Dissolved Solids | APHA 23 rd Edition, 2540 B | 310 | mg/l | 500 |
| 7 | Electrical Conductivity | APHA 23 rd Edition, 2510 B | 483 | µS/cm | - |
| 8 | Calcium (as Ca) | APHA 23 rd Edition, 3500 Ca B | 69.28 | mg/l | 75 |
| 9 | Magnesium (as Mg) | APHA 23 rd Edition, 3500 Mg B | 18.00 | mg/l | 30 |
| 10 | Copper (as Cu) | APHA 23 rd Edition, 3111 B | < 0.10 | mg/l | 0.05 |
| 11 | Manganese (as Mn) | APHA 23 rd Edition, 3500 Mn B | < 0.05 | mg/l | 0.1 |
| 12 | Sulfate (as SO ₄) | APHA 23 rd Edition, 4500 SO ₄ ²⁻ E | 0.50 | mg/l | 200 |
| 13 | Total Nitrate (as NO ₃) | APHA 23 rd Edition, 4500 NO ₃ B | < 2.20 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | APHA 23 rd Edition, 2320 B | 192 | mg/l | 200 |
| 15 | Acidity | APHA 23 rd Edition, 2310 B | 10 | mg/l | - |
| 16 | Sulphide (as H ₂ S) | APHA 23 rd Edition, 4500 S ²⁻ D | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | APHA 23 rd Edition, 3500 Na B | 12.46 | mg/l | - |
| 18 | Potassium (as K) | APHA 23 rd Edition, 3500 K B | 5.07 | mg/l | - |
| 19 | Fluoride (as F) | APHA 23 rd Edition, 4500 F D | < 0.05 | mg/l | 1.0 |

Test Done By

Verified By



Authorized Signatory
Subhanga Praharaj
Managing Director

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

ULR - TC681623000001190F
REPORT NO: CPL/RW/MAY-23/65

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/MAY-23/26**
 Date of Sampling : 13.05.2023
 Sample Description : Ground Water
 Location of Sampling : Bore Well Back Side of Coal Yard
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 13.05.2023
 Date of Test : 13.05.2023 - 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS:10500: 2012 |
|-------|------------------------|---------------------------------------|------------------|------|--|
| 20 | Cadmium (as Cd) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | APHA 23 rd Edition, 3114 B | ND | mg/l | 0.01 |
| 23 | Mercury (as Hg) | APHA 23 rd Edition, 3112 B | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | APHA 23 rd Edition, 3114 C | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | APHA 23 rd Edition, 3111 B | ND | mg/l | 5.0 |
| 27 | Total Chromium (as Cr) | APHA 23 rd Edition, 3111 B | ND | mg/l | 0.05 |

ND: Non Detectable.

Test Done By

Verified By



Authorized Signatory
Subhanga Praharaj
Managing Director

**** End of Test Report ****

Page 2 of 2

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TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/60

REPORT NO: CPL/R/W/MAY-23/65N

REPORT ISSUE DATE: 26.05.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
Sample ID No : **CPL/W/MAY-23/26**
Date of Sampling : 13.05.2023
Sample Description : Ground Water
Location of Sampling : Bore Well Back Side of Coal Yard
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 13.05.2023
Date of Test : 13.05.2023 – 19.05.2023

| Sl No | Parameter | Method of Analysis | Results Obtained | Unit | Acceptable Limit as per IS 10500: 2012 |
|-------|------------------------|---------------------------------------|------------------|-----------|--|
| 1 | Colour | APHA 23 rd Edition, 2120 B | < 5 | Hazen | 5 |
| 2 | Odour | APHA 23 rd Edition, 2150 B | Agreeable | - | Agreeable |
| 3 | Taste | APHA 23 rd Edition, 2160 B | Agreeable | - | Agreeable |
| 4 | Temperature | APHA 23 rd Edition, 2550 B | 29.4 | °C | - |
| 5 | Residual Free Chlorine | MERCK | 0.09 | mg/l | 0.2 (min) |
| 6 | Total Bacterial Count | RAKIRO | Absent | Nos/100ml | Absent |
| 7 | E coli | RAKIRO | Absent | Nos/100ml | Absent |

Test Done By

Verified By



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Managing Director

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Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

GROUND WATER LEVEL MONITORING REPORT

PROJECT SITE: **CEMENT PLANT**

CLIENT: **M/s SHIVA CEMENT LIMITED, Vill: TELEGHANA, At: BRINGATOLI, KUTRA, DIST: SUNDARGARH: 770018, ODISHA**

Ground Water Levels are measured from existing Wells on 26th May 2023 for the month from the following mentioned points and data thus recorded are as follows:

| SI No | Location | MP to GL (m) | TDBMP (m) | WLBGL (m) | GL (m) | WLAMSL (m) |
|-------|--|--------------|-----------|-----------|--------|------------|
| 1 | Bore Well Back Side of Cement Mill Within Plant | 0.15 | - | 29.85 | - | - |
| 2 | Bore Well Back Side of Coal Yard Within Plant 22° 13' 46.4" N – 84° 25' 02.5" E | 0.50 | - | 9.93 | - | - |
| 3 | Bore Well Back Side of Kiln Within Plant 22° 16' 31.0" N – 84° 27' 08.6" E | 0.10 | - | 10.15 | 242.0 | 231.85 |

MP : Measuring Point
GL : Ground Level
TDBMP : Total Depth Below Measuring Point
WLBGL : Water Level Below Ground Level
WLAMSL : Water Level Above Mean Sea Level

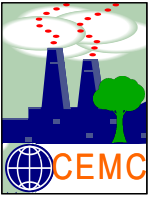

Authorized Signatory
For Cleenviron Private Limited



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Report No. - CEMC/SCL/030723/WL

Issued Date-03.07.2023

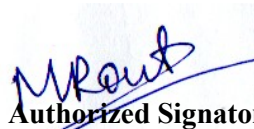
WATER LEVEL TEST REPORT

Name & Address of the Client : M/s. Shiva Cement Limited, Kutra, Sundargarh
Date of Sampling : 19.06.2023
Sampling By : Chandan Kumar Patra
Sample Description : water Level

ANALYSIS RESULT

| Sl. No. | Parameter | Unit | Rresult |
|---------|------------------------|------|---------|
| 1. | Near Store | mtr | 24.4 |
| 2. | Near Back Side Of Kiln | mtr | 13.2 |
| 3. | Near DM Plant | mtr | 10.4 |
| 4. | Near Admin Office | mtr | 6.4 |
| 5. | Near Colony | mtr | 9.4 |

End of Report


Authorized Signatory

Notes:

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E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842
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Report No. - CEMC/SCL/030823/WL

Issued Date-03.08.2023

WATER LEVEL TEST REPORT

Name & Address of the Client : M/s. Shiva Cement Limited, Kutra, Sundargarh
Date of Sampling : 26.07.2023
Sampling By : B.N Pradhan
Sample Description : water Level

ANALYSIS RESULT

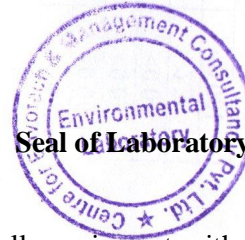
| Sl. No. | Parameter | Unit | Rresult |
|---------|------------------------|------|---------|
| 1. | Near Store | mtr | 19.4 |
| 2. | Near Back Side Of Kiln | mtr | 11.2 |
| 3. | Near WTP | mtr | 9.1 |
| 4. | Near Admin Office | mtr | 8.2 |
| 5. | Near Colony | mtr | 23.5 |

End of Report

Authorized Signatory

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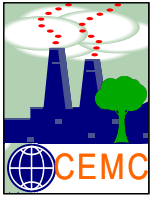
Seal of Laboratory

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Report No. - CEMC/SCL/040923/WL

Issued Date-04.09.2023

WATER LEVEL TEST REPORT

Name & Address of the Client : M/s. Shiva Cement Limited, Kutra, Sundargarh
Date of Sampling : 26.08.2023
Sampling By : B.N Pradhan
Sample Description : water Level

ANALYSIS RESULT

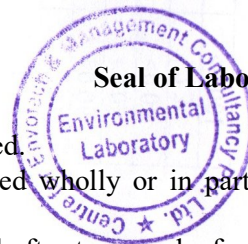
| Sl. No. | Parameter | Unit | Rresult |
|---------|------------------------|------|---------|
| 1. | Near Store | mtr | 18.2 |
| 2. | Near Back Side Of Kiln | mtr | 7.4 |
| 3. | Near WTP | mtr | 3.1 |
| 4. | Near Admin Office | mtr | 1.8 |
| 5. | Near Colony | mtr | 22.3 |

End of Report

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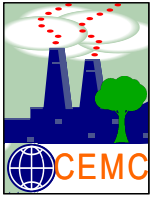
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Report no.-CEMC/SCL/040923/W1

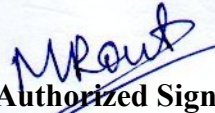
Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Surface water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | Nakti Jhar Upstream |
| Reference No. | CEMC-04092023W229 |
| Job code | 229W |

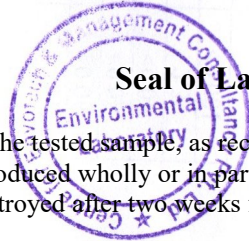
ANALYSIS RESULT

| Sl. No. | Test Parameters | Unit | Max. Tolerance Limit as per IS 2296 : Class C | Result |
|---------|---|------|---|--------|
| 1 | Anionic detergent | mg/l | 1 | ND |
| 2 | Selenium as Se, Max. | mg/l | 0.05 | <0.001 |
| 3 | Arsenic as As, Max. | mg/l | 0.2 | <0.001 |
| 4 | Cyanide as CN, Max. | mg/l | 0.05 | ND |
| 5 | Phenolic compound as C ₆ H ₅ OH, Max. | mg/l | 0.005 | <0.005 |


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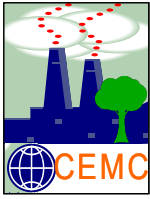
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Report no.-CEMC/SCL/040923/W2

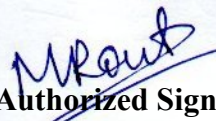
Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Surface water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | Nakti jhar Down Stream |
| Reference No. | CEMC-04092023W230 |
| Job code | 230W |

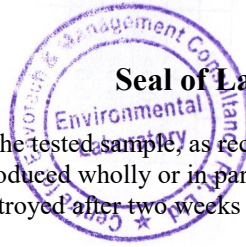
ANALYSIS RESULT

| Sl. No. | Test Parameters | Unit | Max. Tolerance Limit as per IS 2296 : Class C | Result |
|---------|---|------|---|--------|
| 1 | Anionic detergent | mg/l | 1 | ND |
| 2 | Selenium as Se, Max. | mg/l | 0.05 | <0.001 |
| 3 | Arsenic as As, Max. | mg/l | 0.2 | <0.001 |
| 4 | Cyanide as CN, Max. | mg/l | 0.05 | ND |
| 5 | Phenolic compound as C ₆ H ₅ OH, Max. | mg/l | 0.005 | <0.005 |


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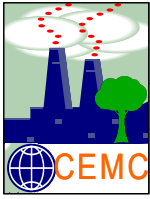
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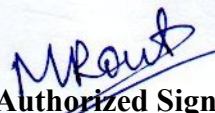
Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Surface water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | KANTIJHARIA NALA UPSTREAM |
| Reference No. | CEMC-04092023W |
| Job code | 231W |

ANALYSIS RESULT

| Sl. No. | Test Parameters | Unit | Max. Tolerance Limit as per IS 2296 : Class C | Result |
|---------|-----------------------------------|------|---|--------|
| 1 | Anionic detergent | mg/l | 1 | ND |
| 2 | Selenium as Se, Max. | mg/l | 0.05 | <0.001 |
| 3 | Arsenic as As, Max. | mg/l | 0.2 | <0.001 |
| 4 | Cyanide as CN, Max. | mg/l | 0.05 | ND |
| 5 | Phenolic compound as C6H5OH, Max. | mg/l | 0.005 | <0.005 |


Authorized Signatory

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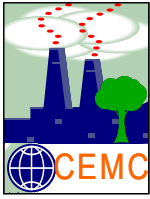
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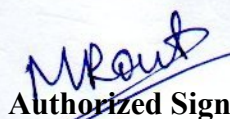
Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Surface water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | KANTIJHARIA NALA DOWNSTREAM |
| Reference No. | CEMC-04092023W232 |
| Job code | 232W |

ANALYSIS RESULT

| Sl. No. | Test Parameters | Unit | Max. Tolerance Limit as per IS 2296 : Class C | Result |
|---------|-----------------------------------|------|---|--------|
| 1 | Anionic detergent | mg/l | 1 | ND |
| 2 | Selenium as Se, Max. | mg/l | 0.05 | <0.001 |
| 3 | Arsenic as As, Max. | mg/l | 0.2 | <0.001 |
| 4 | Cyanide as CN, Max. | mg/l | 0.05 | ND |
| 5 | Phenolic compound as C6H5OH, Max. | mg/l | 0.005 | <0.005 |



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Seal of Laboratory

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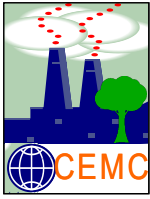
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Report no.-CEMC/SCL/040923/W5

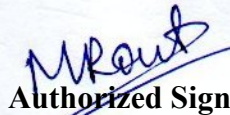
Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Surface water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | DAKU NADI |
| Reference No. | CEMC-04092023W233 |
| Job code | 233W |

ANALYSIS RESULT

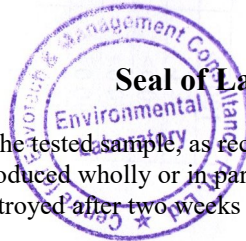
| Sl. No. | Test Parameters | Unit | Max. Tolerance Limit as per IS 2296 : Class C | Result |
|---------|---|------|---|--------|
| 1 | Anionic detergent | mg/l | 1 | ND |
| 2 | Selenium as Se, Max. | mg/l | 0.05 | <0.001 |
| 3 | Arsenic as As, Max. | mg/l | 0.2 | <0.001 |
| 4 | Cyanide as CN, Max. | mg/l | 0.05 | ND |
| 5 | Phenolic compound as C ₆ H ₅ OH, Max. | mg/l | 0.005 | <0.005 |


M. Prasad

Authorized Signatory

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Seal of Laboratory

*END OF REPORT

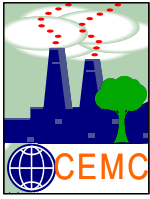
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Report no.-CEMC/SCL/040923/W6

Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Surface water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | MATWALI JHAR |
| Reference No. | CEMC-04092023W234 |
| Job Code | 234W |

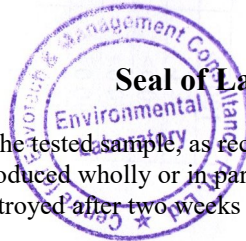
ANALYSIS RESULT

| Sl. No. | Test Parameters | Unit | Max. Tolerance Limit as per IS 2296 : Class C | Result |
|---------|-----------------------------------|------|---|--------|
| 1 | Anionic detergent | mg/l | 1 | ND |
| 2 | Selenium as Se, Max. | mg/l | 0.05 | <0.001 |
| 3 | Arsenic as As, Max. | mg/l | 0.2 | <0.001 |
| 4 | Cyanide as CN, Max. | mg/l | 0.05 | ND |
| 5 | Phenolic compound as C6H5OH, Max. | mg/l | 0.005 | <0.005 |

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Seal of Laboratory

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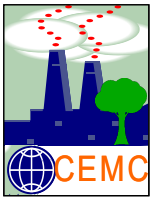
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Report no.-CEMC/SCL/040923/W1

Issued Date-04.09.2023

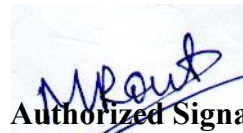
WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Ground water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | NEAR INFRONT OF STORE |
| Reference No. | CEMC-04092023W217 |
| Job code | 217W |

ANALYSIS RESULT

| Sl. No | Parameter | Unit of measurement | Standard as per IS: 10500, 2012(DW) | | Result |
|--------|--|---------------------|-------------------------------------|-------------------|--------|
| | | | Acceptable Limit | Permissible Limit | |
| 1. | Phenolic Compounds (as C ₆ H ₅ OH) | mg/l | 0.001 | 0.002 | <0.001 |
| 2. | Mercury (as Hg) | mg/l | 0.001 | No Relaxation | <0.001 |
| 3. | Cadmium (as Cd) | mg/l | 0.003 | No Relaxation | <0.003 |
| 4. | Selenium (as Se) | mg/l | 0.01 | No Relaxation | <0.001 |
| 5. | Arsenic (as As) | mg/l | 0.01 | 0.05 | <0.001 |
| 6. | Cyanide (as CN) | mg/l | 0.05 | No Relaxation | ND |
| 7. | Lead (as Pb) | mg/l | 0.01 | No Relaxation | <0.01 |
| 8. | Mineral Oil | mg/l | 0.5 | No Relaxation | <0.05 |
| 9. | Aluminium (as Al) | mg/l | 0.03 | 0.2 | <0.01 |

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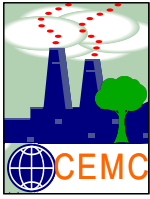
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Report no.-CEMC/SCL/040923/W2

Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Ground water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | COLONY AREA |
| Reference No. | CEMC-04092023W218 |
| Job code | 218W |

ANALYSIS RESULT

| Sl. No | Parameter | Unit of measurement | Standard as per IS: 10500, 2012(DW) | | Result |
|--------|--|---------------------|-------------------------------------|-------------------|--------|
| | | | Acceptable Limit | Permissible Limit | |
| 1. | Phenolic Compounds (as C ₆ H ₅ OH) | mg/l | 0.001 | 0.002 | <0.001 |
| 2. | Mercury (as Hg) | mg/l | 0.001 | No Relaxation | <0.001 |
| 3. | Cadmium (as Cd) | mg/l | 0.003 | No Relaxation | <0.003 |
| 4. | Selenium (as Se) | mg/l | 0.01 | No Relaxation | <0.001 |
| 5. | Arsenic (as As) | mg/l | 0.01 | 0.05 | <0.001 |
| 6. | Cyanide (as CN) | mg/l | 0.05 | No Relaxation | ND |
| 7. | Lead (as Pb) | mg/l | 0.01 | No Relaxation | <0.01 |
| 8. | Mineral Oil | mg/l | 0.5 | No Relaxation | <0.05 |
| 9. | Aluminium (as Al) | mg/l | 0.03 | 0.2 | <0.01 |

***END OF REPORT**

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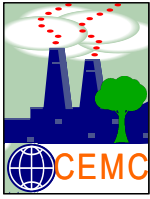
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Issued Date-04.09.2023

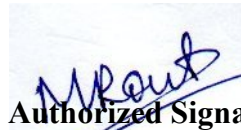
WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Ground water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | NEAR BACK SIDE OF KILN |
| Reference No. | CEMC-04092023W219 |
| Job code | 219W |

ANALYSIS RESULT

| Sl. No | Parameter | Unit of measurement | Standard as per IS: 10500, 2012(DW) | | Result |
|--------|--|---------------------|-------------------------------------|-------------------|--------|
| | | | Acceptable Limit | Permissible Limit | |
| 1. | Phenolic Compounds (as C ₆ H ₅ OH) | mg/l | 0.001 | 0.002 | <0.001 |
| 2. | Mercury (as Hg) | mg/l | 0.001 | No Relaxation | <0.001 |
| 3. | Cadmium (as Cd) | mg/l | 0.003 | No Relaxation | <0.003 |
| 4. | Selenium (as Se) | mg/l | 0.01 | No Relaxation | <0.001 |
| 5. | Arsenic (as As) | mg/l | 0.01 | 0.05 | <0.001 |
| 6. | Cyanide (as CN) | mg/l | 0.05 | No Relaxation | ND |
| 7. | Lead (as Pb) | mg/l | 0.01 | No Relaxation | <0.01 |
| 8. | Mineral Oil | mg/l | 0.5 | No Relaxation | <0.05 |
| 9. | Aluminium (as Al) | mg/l | 0.03 | 0.2 | <0.01 |

***END OF REPORT**


Authorized Signatory


Seal of Laboratory

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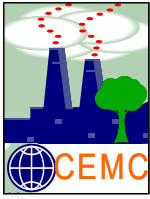
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Report no.-CEMC/SCL/040923/W4

Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Ground water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | KUTRA VILLAGE |
| Reference No. | CEMC-04092023W220 |
| Job code | 220W |

ANALYSIS RESULT

| Sl. No | Parameter | Unit of measurement | Standard as per IS: 10500, 2012(DW) | | Result |
|--------|--|---------------------|-------------------------------------|-------------------|--------|
| | | | Acceptable Limit | Permissible Limit | |
| 1. | Phenolic Compounds (as C ₆ H ₅ OH) | mg/l | 0.001 | 0.002 | <0.001 |
| 2. | Mercury (as Hg) | mg/l | 0.001 | No Relaxation | <0.001 |
| 3. | Cadmium (as Cd) | mg/l | 0.003 | No Relaxation | <0.003 |
| 4. | Selenium (as Se) | mg/l | 0.01 | No Relaxation | <0.001 |
| 5. | Arsenic (as As) | mg/l | 0.01 | 0.05 | <0.001 |
| 6. | Cyanide (as CN) | mg/l | 0.05 | No Relaxation | ND |
| 7. | Lead (as Pb) | mg/l | 0.01 | No Relaxation | <0.01 |
| 8. | Mineral Oil | mg/l | 0.5 | No Relaxation | <0.05 |
| 9. | Aluminium (as Al) | mg/l | 0.03 | 0.2 | <0.01 |

***END OF REPORT**


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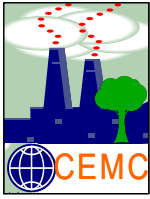
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Report no.-CEMC/SCL/040923/W5

Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Ground water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | BUDHAKATA VILLAGE |
| Reference No. | CEMC-04092023W221 |
| Job code | 221W |

ANALYSIS RESULT

| Sl. No | Parameter | Unit of measurement | Standard as per IS: 10500, 2012(DW) | | Result |
|--------|--|---------------------|-------------------------------------|-------------------|--------|
| | | | Acceptable Limit | Permissible Limit | |
| 1. | Phenolic Compounds (as C ₆ H ₅ OH) | mg/l | 0.001 | 0.002 | <0.001 |
| 2. | Mercury (as Hg) | mg/l | 0.001 | No Relaxation | <0.001 |
| 3. | Cadmium (as Cd) | mg/l | 0.003 | No Relaxation | <0.003 |
| 4. | Selenium (as Se) | mg/l | 0.01 | No Relaxation | <0.001 |
| 5. | Arsenic (as As) | mg/l | 0.01 | 0.05 | <0.001 |
| 6. | Cyanide (as CN) | mg/l | 0.05 | No Relaxation | ND |
| 7. | Lead (as Pb) | mg/l | 0.01 | No Relaxation | <0.01 |
| 8. | Mineral Oil | mg/l | 0.5 | No Relaxation | <0.05 |
| 9. | Aluminium (as Al) | mg/l | 0.03 | 0.2 | <0.01 |

*END OF REPORT


Authorized Signatory

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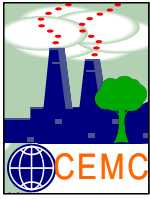
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Report no.-CEMC/SCL/040923/W6

Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Ground water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | SIALJORE VILLAGE |
| Reference No. | CEMC-04092023W222 |
| Job code | 222W |

ANALYSIS RESULT

| Sl. No | Parameter | Unit of measurement | Standard as per IS: 10500, 2012(DW) | | Result |
|--------|--|---------------------|-------------------------------------|-------------------|--------|
| | | | Acceptable Limit | Permissible Limit | |
| 1. | Phenolic Compounds (as C ₆ H ₅ OH) | mg/l | 0.001 | 0.002 | <0.001 |
| 2. | Mercury (as Hg) | mg/l | 0.001 | No Relaxation | <0.001 |
| 3. | Cadmium (as Cd) | mg/l | 0.003 | No Relaxation | <0.003 |
| 4. | Selenium (as Se) | mg/l | 0.01 | No Relaxation | <0.001 |
| 5. | Arsenic (as As) | mg/l | 0.01 | 0.05 | <0.001 |
| 6. | Cyanide (as CN) | mg/l | 0.05 | No Relaxation | ND |
| 7. | Lead (as Pb) | mg/l | 0.01 | No Relaxation | <0.01 |
| 8. | Mineral Oil | mg/l | 0.5 | No Relaxation | <0.05 |
| 9. | Aluminium (as Al) | mg/l | 0.03 | 0.2 | <0.01 |

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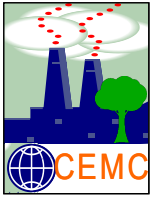
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E-mail- ccmc_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842

E-mail: cemclab@yahoo.in



CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

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Report no.-CEMC/SCL/040923/W7

Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Ground water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | WTP |
| Reference No. | CEMC-04092023W227 |
| Job code | 227W |

ANALYSIS RESULT

| Sl. No | Parameter | Unit of measurement | Standard as per IS: 10500, 2012(DW) | | Result |
|--------|--|---------------------|-------------------------------------|-------------------|--------|
| | | | Acceptable Limit | Permissible Limit | |
| 1. | Phenolic Compounds (as C ₆ H ₅ OH) | mg/l | 0.001 | 0.002 | <0.001 |
| 2. | Mercury (as Hg) | mg/l | 0.001 | No Relaxation | <0.001 |
| 3. | Cadmium (as Cd) | mg/l | 0.003 | No Relaxation | <0.003 |
| 4. | Selenium (as Se) | mg/l | 0.01 | No Relaxation | <0.001 |
| 5. | Arsenic (as As) | mg/l | 0.01 | 0.05 | <0.001 |
| 6. | Cyanide (as CN) | mg/l | 0.05 | No Relaxation | ND |
| 7. | Lead (as Pb) | mg/l | 0.01 | No Relaxation | <0.01 |
| 8. | Mineral Oil | mg/l | 0.5 | No Relaxation | <0.05 |
| 9. | Aluminium (as Al) | mg/l | 0.03 | 0.2 | <0.01 |

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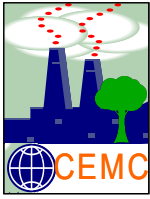
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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986 & NABL Accredited Laboratory

Report no.-CEMC/SCL/040923/W8

Issued Date-04.09.2023

WATER TEST REPORT

| | |
|-------------------------|----------------------------------|
| Issued to | M/s. SCL Mines ,Kutra,Sundargarh |
| Sample Description | Ground water |
| Date of Sampling | 25.08.2023 |
| Date of Sample Received | 26.08.2023 |
| Sample Drawn by | B.N Pradhan |
| Sampling Location | NEAR ADMIN OFFICE |
| Reference No. | CEMC-04092023W228 |
| Job code | 228W |

ANALYSIS RESULT

| Sl. No | Parameter | Unit of measurement | Standard as per IS: 10500, 2012(DW) | | Result |
|--------|--|---------------------|-------------------------------------|-------------------|--------|
| | | | Acceptable Limit | Permissible Limit | |
| 1. | Phenolic Compounds (as C ₆ H ₅ OH) | mg/l | 0.001 | 0.002 | <0.001 |
| 2. | Mercury (as Hg) | mg/l | 0.001 | No Relaxation | <0.001 |
| 3. | Cadmium (as Cd) | mg/l | 0.003 | No Relaxation | <0.003 |
| 4. | Selenium (as Se) | mg/l | 0.01 | No Relaxation | <0.001 |
| 5. | Arsenic (as As) | mg/l | 0.01 | 0.05 | <0.001 |
| 6. | Cyanide (as CN) | mg/l | 0.05 | No Relaxation | ND |
| 7. | Lead (as Pb) | mg/l | 0.01 | No Relaxation | <0.01 |
| 8. | Mineral Oil | mg/l | 0.5 | No Relaxation | <0.05 |
| 9. | Aluminium (as Al) | mg/l | 0.03 | 0.2 | <0.01 |

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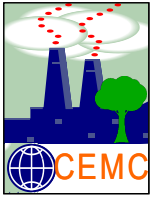
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Report No. - CEMC/SCL/031023/WL

Issued Date-03.10.2023

WATER LEVEL TEST REPORT

Name & Address of the Client : M/s. Shiva Cement Limited, Kutra, Sundargarh
Date of Sampling : 16.09.2023
Sampling By : B.N Pradhan
Sample Description : water Level

ANALYSIS RESULT

| Sl. No. | Parameter | Unit | Rresult |
|---------|------------------------|------|---------|
| 1. | Near Store | mtr | 15.8 |
| 2. | Near Back Side Of Kiln | mtr | 7.8 |
| 3. | Near WTP | mtr | 2.95 |
| 4. | Near Admin Office | mtr | 1.7 |
| 5. | Near Colony | mtr | 21.8 |

End of Report

Authorized Signatory

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Annexure-III

Action plan as per MoEF&CC O.M. dated 30/09/2020

A. Public hearing commitments and action plan and budget:

| Concerns raised during PH | Physical activity & action plan | Particulars | Year of implementation | | | Total budget |
|--|--|---|---|----------------------|----------------------|--------------|
| | | | 1 st year | 2 nd year | 3 rd year | |
| Issue of displacement will be there | As there are no houses/ settlement in the land proposed to be acquired, there will be no displacement of people | Physical Target | - | - | - | - |
| | | Budget: Rs. Lakh | - | - | - | |
| Company should discuss with the local inhabitants in Panchayat level for consensus. | Company had a meeting with Sarpanch, Kandeimunda in presence of ADM, Sundargarh and Tehasildar Kutra on 23-08-2021. The Sarpanch demanded to comply with their requirement in the areas of pollution control, local employment and peripheral development | Physical Target: | Env. & Pollution Control: SCL will install high efficiency pollution control systems for control of air, water and noise pollution and will strictly comply with the pollution norms of SPCB and MoEF | | | - |
| | | Budget: | Included in EMP cost | | | |
| | | Physical Target: | Local Employment – There is a potential for employment to approx. 500 people for the proposed expansion. Local will be preferred and employment will be given based on qualification and eligibility | | | - |
| | | Budget: Rs. Lakh | - | - | - | |
| | | Physical target: Peripheral development will be undertaken by SCL in the following areas: | <ul style="list-style-type: none"> - Livelihood - Education - Health & sanitation - Rural development | | | - |
| Budget: Rs. Lakh | SCL will spend the allocated budget for various peripheral development activities in a span of 3 years. Yearwise and activitywise budget allocation is detailed in subsequent points | | | | | |
| Regarding increase in level of pollution. Poisonous gas emission, respiratory illness. Cement Dust deposits over houses and in agricultural lands. Los of soil fertility and crop productivity, water and noise pollution etc. | <ul style="list-style-type: none"> • Adequate control measures like installation of ESP, Bag filters, dust suppression system, fume extraction system, sprinklers & stacks of adequate height at relevant places will be installed. • Air borne dust shall be controlled by mobile water tanker inside the plant premises. • Maintenance and performance monitoring of air pollution control equipment shall be done at regular intervals. • All roads shall be paved on which movement of raw materials or products will take place inside the plant premises. • No waste water will be discharged outside the plant area. The plant is designed as a zero-discharge plant. The entire wastewater will be recirculated and recycled. | Physical Target: | The physical targets for the entire activities shall be achieved in 3 years | | | - |
| | | Budget: | Included in EMP cost. | | | |

| Concerns raised during PH | Physical activity & action plan | Particulars | Year of implementation | | | Total budget |
|--|---|--|--|---|----------------------|--------------|
| | | | 1 st year | 2 nd year | 3 rd year | |
| | <ul style="list-style-type: none"> Domestic waste water will be treated in STP and the treated water will be used for plantation. The equipment shall comply with the Statutory limit of 85 dB(A) (at 1 m. from the source). Noise Reduction Systems will be provided. Thick greenbelt will be developed around the periphery | | | | | |
| Regarding ground water depletion and water scarcity in the locality due to drawl of ground water by company. | The fresh water requirement of the plant after the expansion is 1792 m ³ /day. 688 m ³ /day water will be sourced from bore wells and additional 1104 m ³ /day of water will be sourced from the mine pit after laying of water pipeline. | Physical target: | Rooftop rainwater harvesting within plant premises. This includes roof tops of CCR, stores, admin. workshop, packing plant and residential buildings as well as groundwater recharge of surface runoff. | Construction of a) 2 check dams in village Telighana and Kandeimunda b) deepening/ renovation of 2 ponds in Kandeimunda and Kutra c) Construction of Roof top RWH structures in 5 govt offices and school buildings. | | |
| | | Budget: Rs 50 Lakh | Included in EMP cost | Rs. 50 Lakh | | Rs. 50 Lakh |
| | Supply of drinking water during summer | Physical target: | Drinking water supply through tankers in 3 villages. i.e. Telighana, Kutra and Kandeimunda as per requirement. Water supply will be continued even after 3 years and will also be extended to other villages based on their needs. | | | |
| | | Budget: Rs. 18 Lakh | Rs. 6 Lakh | Rs. 6 Lakh | Rs. 6 Lakh | Rs. 18 Lakh |
| | Development of drinking water facility | Physical target: | Bore well construction and provision of solar pumps (2 nos each in village Telighana, Kutra and Kandeimunda) | | | |
| Budget: Rs. 30 Lakh | | Rs. 10 Lakh | Rs. 10 Lakh | Rs. 10 Lakh | Rs. 30 Lakh | |
| Utilization of mine pit water to conserve groundwater | Physical target: | Laying of water pipeline from Khatkurbahal mine to plant for carrying mine pit water | | | | |
| | Budget: | Included in project cost | | | | |
| Regarding construction of dedicated road from State Highway to plant | The existing road is the only road connecting our plant to SH-10. The company proposes for widening and concreting of this road | Physical target: | Widening and concreting of approx. 1.5 km road will be completed by July 2022 | | | |
| | | Budget: Rs. 650 Lakh | Rs. 650 Lakh | | Rs. 650 Lakh | |
| Regarding employment to local people | Top most priority will be given to the local people based on their academic qualification and eligibility. In addition, skill development (SD) for unemployed local youths through National Skill Development Corporation and Odisha Skill Development Authority. Construction | Physical target: | Construction of Skill Development Centre/ Vocational training centre building with 6 AC rooms near plant premises. Installation of 20 nos. of sewing machines, 10 nos. of computer systems, 10 nos. of machines for making hand craft items along with necessary raw materials, organizing 6 workshops annually for practical training, provision of qualified trainers, approved course contents, independent 3 rd party assessment, equipment, machinery and necessary consumables/ raw materials based on the need of the local people | | | |

| Concerns raised during PH | Physical activity & action plan of SD Centre with the necessary infrastructure | Particulars | Year of implementation | | | Total budget |
|---|---|--------------------------|--|---|--|----------------------|
| | | | 1 st year | 2 nd year | 3 rd year | |
| | | Budget: | Rs. 30 Lakh | Rs. 60 Lakh | Rs. 60 Lakh | Rs. 150 Lakh |
| Proper wages to Local labours. | Wages will be paid strictly as per statutory norms | Physical target: | - | - | - | |
| | | Budget: | - | - | - | - |
| Regarding proper safety measures to be taken for workers to be deployed in company. | Company will strictly comply with all safety measures in accordance with State Factory Rules and other applicable health and safety rules | Physical target: | All safety measures related to plant and machinery have been incorporated in plant design. Other measures such as provision of safe workplace, hand rails, toe guards, safe platforms, proper insulation, provision of sensors for equipment safety, required safety gadgets to workers, appointment of safety officers (in each shift), job safety analysis, regular safety training, ensuring good housekeeping in plant premises, regular health checkup of workers, provision of first aid and a health centre within the premises and implementation of Safety Management System in line with ISO 45001 | | | |
| | | Budget: | Included in project and EMP cost | | | - |
| Regarding peripheral development | Construction of hospital in the area | Physical target: | Construction of 20 bed hospital with doctors, paramedical staff, minor OT, Emergency, Pathology lab, gynecology and other required facilities near plant in village Telighana | | | |
| | | Budget: | - | Rs. 150 Lakh | Rs. 150 Lakh | Rs. 300 Lakh |
| | Village infrastructure development | Physical target: | Construction of 400 Mtr CC road along with drainage (Backside of colony to Telighana village) | Construction of 800 Mtr CC road along with drainage (Road leading from plant backside to Telighana village) | Construction of 1 km CC road along with drainage (Road leading from plant gate to Kandeimunda a village) | |
| | | Budget: Rs. 125 Lakh | Rs. 60 Lakh | Rs. 95 Lakh | Rs. 120 Lakh | Rs. 275 Lakh |
| | Sanitation (public toilets) | Physical target: | Construction of public toilets 5 nos each in village Telighana, Kandeimunda, Bringatoli and Kutra. Total 20 nos. | | | |
| | | Budget: Rs. 15 Lakh | Rs. 5 Lakh | Rs. 5 Lakh | Rs. 5 Lakh | Rs. 15 Lakh |
| | Development of building infrastructure, playground, class rooms, library facilities and providing computers in the Local schools | Physical target: | Construction of 4 extra rooms in govt school, village Telighana | Development of playground in Kutra High School and providing sports kits to students | Computer labs and 2 nos of smart boards in village schools of Telighana and Kandeimunda | |
| | | Budget: Rs. 32 Lakh | Rs. 12 Lakh | Rs. 10 Lakh | Rs. 10 Lakh | Rs. 32 Lakh |
| | Electrification through Solar LED Street lighting in villages | Physical target: | 10 nos of solar street lights in Kutra village | 10 nos of solar street lights in Telighana village | 10 nos of solar street lights in Kandeimunda a village | |
| | | Budget: Rs. Lakh | Rs. 7 Lakh | Rs. 7 Lakh | Rs. 7 Lakh | Rs. 21 Lakh |
| | | Total budget (A): | | | | Rs. 1541 Lakh |

B. Detailed action plan with physical targets for need based activities:

| Need based activities | Particulars | Year of implementation | | |
|---|----------------------|--|--|--|
| | | 1 st year | 2 nd year | 3 rd year |
| Supporting health, nutrition and sanitation | Physical target | Providing nutritious diet package to pregnant women and new mothers for their baby's physical and mental health. providing support for timely vaccination | | |
| | Budget (Rs. 9 Lakh) | Rs. 3 Lakh | Rs. 3 Lakh | Rs. 3 Lakh |
| | Physical target | Arranging 2 health camps in a year for elderly persons. One camp for eye check-up and free cataract surgery whereas another camp for general health check-up including blood, urine and other tests. | | |
| | Budget (Rs.15 Lakh) | Rs. 5 Lakh | Rs. 5 Lakh | Rs. 5 Lakh |
| | Physical target | Distribution of sanitary napkins to girls and women. | | |
| | Budget (Rs. 3 Lakh) | Rs. 1 lakh | Rs. 1 lakh | Rs. 1 lakh |
| Renovation and augmentation of infrastructure | Physical target | Repairing of existing tube wells | Hand pump Installation – 2 nos | Hand pump Installation – 2 nos |
| | Budget (Rs.3 Lakh) | Rs. 1 lakh | Rs. 1 lakh | Rs. 1 lakh |
| | Physical target | Repair & maint. of 1 km road in the village | Repair & maint. of 1 km road in the village | Repair & maint. of 1 km road in the village |
| | Budget (Rs. 30 Lakh) | Rs. 10 Lakh | Rs. 10 Lakh | Rs. 10 Lakh |
| | Physical target | Supply of furniture and 2 computers in 2 village schools | Supply of medicines in CHC, Kutra | |
| | Budget (Rs.15 Lakh) | Rs 5 Lakh | Rs 5 Lakh | Rs 5 Lakh |
| Support to children in education and sports | Physical target | Distribution of school bags, books, bicycles, stationery items to 50 students | Sponsoring 30 candidates for ITI training (fee & other educational expenses) | Providing sports kits to children (25 nos) and supporting them to participate in various sports tournaments etc. |
| | Budget (Rs. 17 Lakh) | Rs 2 Lakh | Rs 10 Lakh | Rs 5 Lakh |
| | Physical target | Scholarships to 10 meritorious students every year | | |
| | Budget (Rs. 6 Lakh) | Rs 2 Lakh | Rs 2 Lakh | Rs 2 Lakh |
| Facilitate carrier-oriented programs to make youth eligible for various job opportunities | Physical target | Vocational training for self-employment in the field of auto mechanic, electrician, drill operator, loader operator, Maintenance Crew, excavator operator, HEMM Mechanic etc. | | |
| | Budget (Rs. Lakh) | Covered in Public Hearing related issues | | |
| | Physical target | Financial assistance to 10 students from PAFs towards coaching for competitive examinations | | |
| | Budget (Rs. 15 Lakh) | Rs. 5 Lakh | Rs. 5 Lakh | Rs. 5 Lakh |
| Sustainable livelihood | Physical target | Organizing driving and vehicle maintenance workshops for PAFs (2 sessions in a year) | | |
| | Budget (Rs.6 Lakh) | Rs. 2 Lakh | Rs. 2 Lakh | Rs. 2 Lakh |
| | Physical target | Training to PAFs through experts in the field of agriculture & livestock through workshop (2 sessions in a year) | | |
| | Budget (Rs. 6 Lakh) | Rs. 2 Lakh | Rs. 2 Lakh | Rs. 2 Lakh |
| | Physical target | Training to PAFs for papad making, sanitary napkin making, sewing training through workshop by area expert (4 sessions in a year) | | |
| | Budget (Rs. 15 Lakh) | Rs. 5 Lakh | Rs. 5 Lakh | Rs. 5 Lakh |
| | | Total budget (B) Rs. 140 Lakh | | |
| | | Total (A) + (B) = 1681 Lakhs | | |

Environment Management Cost Expenditure

| Sl. No | Particulars | Expenditure in lacs |
|--------------|--|---------------------|
| 1 | Air Pollution Control Equipment (ESP, Bag filter) | 1849.57 |
| 2 | Continuous Ambient Air Quality Monitoring Equipment | 286.49 |
| 3 | Continuous Emission Quality Monitoring Equipment | 28.29 |
| 4 | Server Connectivity Cost | 5.85 |
| 5 | Electronic display board | 3.75 |
| 6 | Road Sweeping Machine | 57.00 |
| 7 | Air Pollution Control (Construction of Concrete Road & drainage system inside the plant) | 1125.00 |
| 8 | Air Pollution Control (Construction of Concrete Road outside the plant) | 350.00 |
| 9 | Water Tanker for dust suppression | 7.82 |
| 10 | Environmental Monitoring | 5.63 |
| 11 | Housekeeping of Plant | 60.44 |
| 12 | Horticulture Expenses | 18 |
| 13 | World Environment Day Celebration | 1.5 |
| 14 | Water audit & ground water impact assessment study | 8.7 |
| Total | | 3808.04 |

**CORPORATE SOCIAL RESPONSIBILITY-SHIVA CEMENT LTD
(A UNIT OF SHIVA CEMENT LTD.)
FY: 2023-24**

Budget Utilization Q-1 & Q-2 FY 2023-24

Rs. in lakhs

| Category | Budget | Expenditure | Commitment | Total Expenditure |
|-------------------|---------------|---------------|---------------|-------------------|
| Health Care | 35.00 | 24.00 | 11.00 | 35.00 |
| Education | 35.00 | 22.50 | 12.50 | 35.00 |
| Livelihood | 45.00 | 20.25 | 24.75 | 45.00 |
| Rural Development | 106.00 | 48.70 | 57.30 | 106.00 |
| Sports | 15.00 | 7.25 | 7.75 | 15.00 |
| Miscellaneous | 5.00 | 2.00 | 3.00 | 5.00 |
| Total | 241.00 | 124.70 | 116.30 | 241.00 |

Livelihoods

Objectives

- Create livelihood opportunities for the underprivileged.
- Collaboration with the government to provide financial assistance to women's organizations.
- Improve productivity to increase farmer income, soil health, skill and knowledge.

Activities

Women Empowerment Activities:

- 54 women engaged in fish farming
- 74 Women engaged in mushroom farming
- 63 females completed the stitching courses
- 17 women trained in flower and basket making
- 103 women farmers cultivating vegetables

Agri Livelihood:

- 272 farmers were engaged
- Partnered with ITDA and introduced drip irrigation
- Cultivating 275 acres of farmland
- Established solar-based cold storage unit
- Provided training and handholding support

Outcomes

Women Empowerment:

- 27 women earned Rs. 12.45lacs FY 22-23 through fish farming.
- 37 Women earned Rs. 47000/each through mushroom farming
- 21 females placed in Indore, Gujarat, Surat and Rourkela textile industries. (Earning 21000/- to 30000/- PM)
- 24 women earning Rs. 9000/-PM through tailoring unit
- 103 women farmers earned Rs. 2.1 lacs to 3.7 lacs

Agri Livelihood:

- 120 farmers will get profit through the cold storage facility
- 172 farmers increased vegetable production and earned Rs 3-4 lacs from vegetable farming so far

Education

Objectives

- Ensuring 0% dropout of students.
- Develop proper infrastructure for students
- Improve learning outcomes of children

Activities

- Furniture support for Girl students in 3 schools
- Classroom teaching through Digi-classes
- Installed RO water facility in 16 schools
- Developed 17 kitchen gardens
- Study kits along with guides provided to students
- Honored school students secured good scores in the HSC examination.
- JSW UDDAN Scholarships for meritorious students

Outcomes

- School Infrastructure developed in 03 schools. 300 girls students benefitted from
- Ensured 0% dropout.
- 2347 students consuming safe drinking water
- More than 700 students getting protein-rich diets through Kitchen-garden
- Study kits distributed to 1734 students
- 21 outstanding students are felicitated with certificates, gifts, and a cash prize of Rs. 5000
- 16 students received JSW Udaan scholarships

Rural Development

Objectives

- Provide safe drinking water to the villagers through a sustainable approach
- Promote rural sports
- To bridge the gap between the community and Govt. Schemes
- Ensure proper road communication and lighting facilities

Activities

- 20 Solar-based water structures installed in the DIZ villages.
- Installed 12 Tube wells to provide safe drinking water.
- Constructed 02 bathing structures for women.
- Installed 140 solar streetlights.
- 6000 seedlings plantation in plant and mine location.
- Renovated 02 playgrounds to organize various sports.
- Sports equipment, coaching, and logistic support to players.
- Organized Hockey and football championships at Kutra.
- Constructed a new bus stop and water facility for people.

Outcomes

- 1700 HHs getting safe drinking water through the solar water project.
- Proper illumination was developed in 17 villages.
- Ensured women's safety through bathing blocks.
- Developed greenery through 8 plantation drives.
- Winner in District level Senior Girls Hockey Championship with cash prize Rs. 50000/-.
- 07 girls were selected by the sports hostel, Sundargarh, and Rourkela to represent Odisha.
- 04 girls got a chance to perform for the "**Mirnawan Cup**" held in Malaysia.

Glimpses of Rural Development



Solar water structure inauguration



New bus stop and water facility



Community hall renovated



7C5X+JXH, Dahijira, Odisha 770018, India
Latitude 22.259501° Longitude 84.450194°
LOCAL 15:42:00 SATURDAY 07.08.2023
GMT 10:12:00 ALTITUDE 176 METER

Solar street lights



Rural Sports-Glimpses



Winner Girls Hockey



Performed at the Biggest Hockey stadium, RKL



Performed at Malaysia



Under-14 team

Plantation drive in our DIZ area



Fruit garden developed at Nakti



Fruit garden developed at Kandeimunda



Plantation at Sonakhandi (kutunia)



Fruit garden developed at Zindapada

IMPACT STORY: SOLAR BASED DRINKING WATER PROJECT- SHIVA CEMENT

- The villagers of Kandeimunda, Khatkurbahal, Sonakhan and Biringatoli Panchayats had to walk around 1 km to get water for drinking.
- Installed 20 - Solar-Based Drinking Water Systems in these villages till date.
- Benefitting 8000 villagers with improved health outcomes.
- The project also helps to reduce the consumption of conventional energy, and hence ensures environmental sustainability.
- This year we have planned to install 5 more Solar-Based Drinking Water Systems in Kutra Panchayat. This project will benefit more than 2500 villagers.



Plan for Q3 and Q4: FY 23-24

Rs. in lakhs

| Activities | Commitment Budget | | |
|---|-------------------|--------------|---------------|
| | Q3 | Q4 | Total |
| Education | | | 12.50 |
| Infrastructure development in Schools/ Observing special days/Science exhibition and extra curricular activities | 5.25 | 7.25 | 12.50 |
| Health | | | 11.00 |
| Health awareness/Medical camps/Eyecare camps/Nutritional support to TB patients | 6.50 | 4.50 | 11.00 |
| Livelihood | | | 24.75 |
| Establishment of new tailoring unit and training/Fisheries/Mushroom cultivation/Commercial vegetable farming/Phenyl making etc. | 13.35 | 11.40 | 24.75 |
| Rural Development | | | 57.30 |
| Installation of Borewell/Construction of community hall/Solar water supply/Solar Street Lights/Community bathing blocks etc | 32.00 | 25.30 | 57.30 |
| Sports Promotion | | | 7.75 |
| Sports equipment for youths/Organize sports competitions | 3.50 | 4.25 | 7.75 |
| Miscellaneous | 1.50 | 1.50 | 3.00 |
| Total | 60.60 | 52.70 | 116.30 |

**SHIVA CEMENT LIMITED
(SCL)**

CORPORATE ENVIRONMENT POLICY

DOCUMENT CONTROL

Document version:

This Corporate Environment Policy (Policy) document is version 1.0

Preparation/Revision History

| SR. No. | Date of preparation / modification | Version No. | Modified by | Reviewed by | Approved by |
|---------|------------------------------------|-------------|-------------------|--------------------|--------------------|
| 1 | 23-09-2020 | 1.0 | Company Secretary | Executive Director | Board of Directors |

Issuing Authority

This policy is approved by the Board of the Company

Author and Responsible Official

This policy is to be maintained and updated by way of additions, deletions and modifications only by the Company Secretary after approval of the Board of Directors. Every time the policy document is edited, the version increases by one unit and the version is to be mentioned on every page.

Applicability and Usage

This policy applies to **Shiva Cement Limited**. The Executive Director of the organization shall be authorised by Board to ensure the proper use of this document.



PREFACE

- The company, Shiva Cement Ltd. recognises its joint responsibility with the Government and the Public to protect environment and is committed to regulate all its activities so as to follow best practicable means for minimising adverse environmental impact arising out of its operations.
- The company is committed in making its products environmentally acceptable, on a scientifically established basis, while fulfilling consumers' requirements for excellent quality, performance and safety.
- The aim of the Policy is to do all that is reasonably practicable to prevent or minimise, encompassing all available knowledge, technology and information, the risk of an adverse environmental impact arising from manufacturing and supply of our products.
- This Policy document reflects the continuing commitment of the Board for sound Environment Management of its operations. The Policy is applicable to all company operations covering manufacturing, mining, sales & distribution and other offices. This document defines the aims and scope of the Policy as well as responsibilities for the achievement of the objectives laid down.

The Vision

Our vision is to continue to be an environmentally responsible organisation making continuous improvements in the management of the environmental impact of our operations.

We will achieve this through an Integrated Environment Management approach which focuses on Technology & Best Practices and is supported by Management Commitment as the prime driver.

Environment Policy

Shiva Cement Ltd. (SCL) is committed to meeting the needs of customers and other stakeholders at large in an environmentally sound manner, through continuous improvement in environmental performance in all its activities. Management at all levels, jointly with employees, are responsible and will be held accountable for company's environmental performance.

Accordingly, SCL aims to:

- Compliance to all the applicable rules, regulations, permits and authorizations.
- Protect the environment and prevent pollution through implementing Best Available technologies and practices
- Ensure safety of its products and operations for the environment by using standards of environmental safety, which are scientifically sustainable and commonly acceptable.
- Develop, introduce and maintain environmental management systems across the company to meet the company standards as well as statutory requirements relating to environment and verify compliance with these standards through regular auditing.

- Assess environmental impact of all its activities and set continual improvement objectives and targets and review these periodically to ensure that these are being met at the individual unit and corporate level.
- Reduce waste, conserve energy and explore opportunities for reuse and recycle.
- Maximise utilization of industrial waste as alternative raw materials and fuels to conserve natural resources
- Encourage efficient use of natural resources including energy, water and utilities, fuels, raw materials and food.
- Promote use of renewable energy
- Adopt rainwater harvesting in and around the facilities
- Integrate the consideration of environmental concerns and impacts at the design, planning and operational stages of our activities.
- Develop and maintain procedures/ processes to bring into focus any infringement/ deviation/ violation of the environmental or forest norms/ conditions to the Board of Directors and stakeholders at large
- Involve all employees in the implementation of this Policy and provide appropriate training. Dissemination of information to employees on environmental objectives and performance through suitable communication networks.
- Encourage suppliers & service providers to develop and employ environmentally superior processes and co-operate with other members of the supply chain to improve overall environmental performance.
- Work in partnership with external bodies and Government agencies to promote environmental care, increase understanding of environmental issues and disseminate good practices.

CORPORATE RESPONSIBILITIES

The Executive Director of the Company is responsible for the Compliance of the Policy. The Executive Director may constitute a Committee called as Corporate Environment Committee (hereinafter called as Committee). The Committee is committed to conduct the company operations in an environmentally sound manner. The Committee will:

- Set standards and establish environmental improvement objectives and targets for SCL as a whole and for individual units, and ensure these are included in the annual operating plans.
- Formally review environment performance of the company once every quarter.
- Review environment performance when visiting units and recognise exemplary performance.
- Nominate a unit head or senior employee as coordinator for compliance of environmental performance at the site.



The Committee, through the nominated coordinator will:

- Ensure implementation of Policy on environment and compliance with the Company's environmental standards and the standards stipulated under relevant national / local legislation. Where appropriate, apply more stringent criteria than those required by law.
- Assess environmental impact of SCL operations and establish strategies for sound environment management and key implementation steps.
- Encourage development of cleaner manufacturing processes to further raise the standards of environment performance.
- Establish appropriate management systems for environment management and ensure regular auditing to verify compliance.
- Establish systems for appropriate training in implementation of Environment Management Systems at work.
- Ensure that all employees are made aware of individual and collective responsibilities towards environment.
- Arrange for expert advice on all aspects of environment management.
- Participate, wherever possible, with appropriate industry and Government bodies advising on environmental legislation and interact with national and local authorities concerned with protection of environment.

INDIVIDUAL UNIT'S RESPONSIBILITIES

The overall responsibility for environment management at each unit will rest with the unit head or senior employee, who will ensure implementation of Policy on environment at unit level and report to Executive Director or Committee as the case may be. Concerned line managers / heads of departments are responsible for environmental performance at department levels.

In order to fulfil the requirements of the Policy at each site, the Unit Head will:

- Designate a unit environment coordinator who will be responsible for co-ordinating environmental activities at unit, collating environmental data and providing / arranging for expert advice.
- Specific environmental improvement objectives and targets for the unit and ensure that these are incorporated in the annual objectives of the concerned managers and officers and are reviewed periodically.
- Ensure that the unit complies with SCL's environmental standards and the relevant national and state regulations with respect to environment.
- Ensure formal environmental risk assessment to identify associated environmental aspects and take appropriate steps to control risks at acceptable levels.

- Ensure that all new operations are subjected to a systematic and formal analysis to assess environmental impact. Findings of such exercises should be implemented prior to commencement of the activity.
- Manage change in people, technology and processes through a planned approach based on training, risk assessment, pre-commissioning audits and adherence to design norms.
- Regularly review environment performance of the unit against set objectives and targets and strive for continual improvement.
- Sustain a high degree of environmental awareness through regular promotional campaigns and employee participation through training, safety committees, emergency drills etc.
- Ensure dissemination of relevant information on environment within the unit and to outside bodies, and regularly interact with Government authorities concerned for protection of environment.
- Maintain appropriate emergency procedures consistent with available technologies to prevent / control environmental incidents.
- Provide appropriate training to all employees.
- Ensure periodic audits to verify compliance with environment management systems.
- Also ensure periodic 3rd party environment audits to check efficacy of the Environment Management Systems.
- Report environmental performance to committee on a monthly basis.

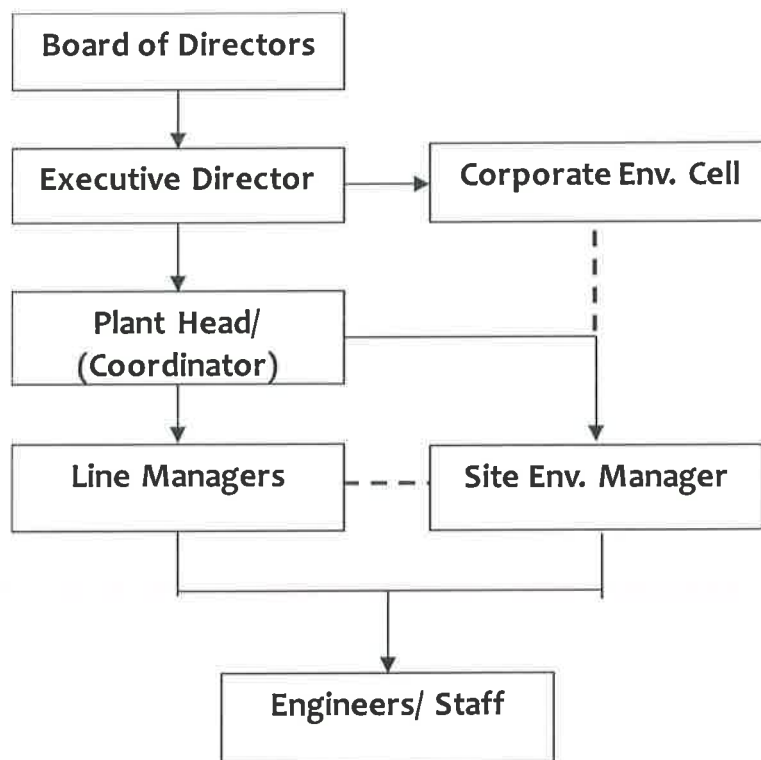
Procedure for reporting of Environmental non-compliance or violations

1. Environmental Nonconforming / noncomplying situation may arise due to:
 - (a) Deviation from key characteristics of operations or other activities significantly affecting the environment.
 - (b) Non-fulfillment of the Legislation and/or Regulatory or Company's requirements.
 - (c) Non-fulfillment of/deviation from the documented requirements
2. Any Environmental Nonconformity (NC) in the plant premises detected is to be reported to Env. Cell. Env. Cell shall subsequently investigate the root cause & take appropriate corrective & preventive actions consistent with the nature of the NC.
3. Daily review meetings are conducted by the Unit Head and reported to the CEO and Wholetime Director. In case any non-compliance or violation of environmental parameters/norms/regulations etc., is observed or reported, the same is brought to the notice of the Unit Head (during the daily review meeting). In case the non-compliance or violation is of manageable nature, Unit Head issues instructions and sanctions appropriate budget and resources to rectify the same. If the problem is of higher magnitude, Unit head seeks financial approval from the CEO & Wholetime Director. All the instances of non-compliance and violations are brought to the notice

of the CEO & Wholetime Director and action taken report submitted on regular basis. The CEO is appraised regularly till the problem is resolved.

4. All non-compliances/ violations are subject to root cause analysis and accordingly a corrective action plan is prepared and implemented within the agreed time frame. Till the time a permanent solution / corrective action is implemented, the task is carried out under constant supervision.

The hierarchical system of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions is given below:



BHUBANESWAR, TUESDAY, MARCH 29, 2022

THE PIONEER

PUBLIC INFORMATION

This is to inform the public that M/s Shiva Cement Limited has been accorded Environment Clearance (EC) by the Ministry of Environment Forest & Climate Change (MoEF& CC), New Delhi vide letter No. J-11011/84/2008- IA II (I), dated 23-03-2022 in accordance with S.O.1533 (E) dated 14th Sept, 2006 of Govt for Expansion of cement plant with increase of clinker production from 0.165 MTPA to 3.0 MTPA and Cement production from 0.252 MTPA to 2.0 MTPA (OPC/PPC/PSC/COMPOSITE CEMENT/GGBS) along with installation of 12 MW WHRS at village- Teleghana, PO- Biringatoli, Tehasil Kutra, District Sundergarh, Odisha by Shiva Cement Limited. Copy of the Environment Clearance (EC) letter is available with the State Pollution Control Board, Odisha and website of the Ministry of Environment, Forests & Climate Change (www.parivesh.nic.in) and also on the website of M/s Shiva Cement Limited (www.shivacement.com)

TUESDAY, MARCH 29, 2022

PRAMEYA

ସର୍ବସାଧାରଣ ବିଜ୍ଞାପି

ଏହା ଦ୍ଵାରା ସମସ୍ତ ଜନସାଧାରଣଙ୍କୁ ଅବଗତ ପାଇଁ ଦୂର୍ଦ୍ଦିତ ଭାଷାରେ ଯେ ଉତ୍ତର ସରକାରଙ୍କ ପରିବେଶ, ଜଳ ଏବଂ ଜଳବାୟୁ ପରିଚାଳନା ବିଭାଗ, ନୂଆଦିଲ୍ଲୀରୁ ଭାରତ ସି. ଡି. ଡି. ନଂ. J-11011/84/2008-IA-II (I) ତାରିଖ ୨୩.୦୩.୨୦୨୨ ଏବଂ S.O.1533 (E) dated 14th Sept, 2006 ଭାରତ ସରକାର, ଅନୁଯାୟୀ ଶିବା ସିମେଣ୍ଟ ଲିମିଟେଡ୍ କାରଖାନା -ଉତ୍ପାଦନ କ୍ଷମା ବୃଦ୍ଧି କ୍ଷମା : 0.165 ମିଲିଅନ ଟନ୍ନିକ ଟନ୍ ରୁ 3.00 ମିଲିଅନ ଟନ୍ନିକ ଟନ୍ ଭିତ୍ତିକ : 0.252 ମିଲିଅନ ଟନ୍ନିକ ଟନ୍ ରୁ 2.00 ମିଲିଅନ ଟନ୍ନିକ ଟନ୍ (OPC/PPC/PSC/COMPOSITE CEMENT/ GGBS) ଏହା ସହିତ ବ୍ୟସ୍ତପନ 12 MW ବର୍ଣ୍ଣାଳୟ ଉପରେ ୧୨ ଯୁକ୍ତ ଗ୍ରାମ- ଟେଲିହନା, ଚନ୍ଦ୍ରବିଲ୍ ସୁରୁ, ଜିଲ୍ଲା ବୃନ୍ଦାବନର ସ୍ଥିତ ନେତୃତ୍ଵ ଶିବା ସିମେଣ୍ଟ ଲିମିଟେଡ୍ ରୁ ଉତ୍ପାଦନ କ୍ଷମା ବୃଦ୍ଧି ଭିତ୍ତିକ ଯୁକ୍ତର ସମ୍ପର୍କରେ ସମ୍ପର୍କ ନିମ୍ନୋକ୍ତ ପ୍ରକାର କରିଥିବ ।

ଉପରୋକ୍ତ ପ୍ରକାରର ନକଲ ଡାକ୍ତରୀ ପ୍ରକାଶ କୋର୍ଡ୍, ଡ଼ିପ୍ଟା ଏ ପାଠକର ଓ ପରିବେଶ, ଜଳ ଏବଂ ଜଳବାୟୁ ପରିଚାଳନା ବିଭାଗର [website \(www.parivesh.nic.in\)](http://www.parivesh.nic.in) ତଥା ଶିବା ସିମେଣ୍ଟ ଲିମିଟେଡ୍ ର [website \(www.shivacement.com\)](http://www.shivacement.com)ରେ ଉପଲବ୍ଧ ଅଟେ ।



CIN: L26942OR1985PLC001557

SHIVA CEMENT LIMITED

AT : TELIGHANA
P.O. : BIRINGATOLI
TEHSIL : KUTRA
DIST. : SUNDARGARH
ODISHA, INDIA,
PIN-770018
Dt: 25.03.2022

Shiva/SCL-Plant/EC/2022

✓ To,
The District Collector
Office of collector cum District Magistrate,
Collectorate, Sundergarh
At/Po- Sundergarh
Dist-Sundergarh, Odisha
Pin-770001

Subject: Environment Clearance of expansion of cement plant with increase of clinker production from 0.252 MTPA to 3.0 MTPA Cement from 0,252 MTPA to 2.0 MTPA (OPC/PPC/PSC/COMPOSITE CEMENT/GGBS) along with installation of 12 MW WHRS at villages- Teleghana. PO- Biringatoli, Tehasil Kutra, District Sundergarh Odisha by M/s. Shiva Cement Ltd. - **Submission of copy of Environment Clearance reg.**

Ref: Environment clearance Issued by MOEF& CC, New Delhi vide letter No. File No. - J-11011/84/2008- IA II (I) Date of Issue EC - 23/03/2022.

Dear Sir,

With reference to the aforesaid subject, we would like to inform you that the Environment Clearance for the above cited project has been issued by MOEF & CC, New Delhi vide letter No. File No. - J-11011/84/2008- IA II (I) Date of Issue EC - 23/03/2022.

We are hereby submitting herewith a copy of the same for your reference and record.

Please acknowledge the receipt of the document.

1. Copy of Environment Clearance letter issued by MOEF & CC

Thanking you,

Yours faithfully,

For Shiva Cement Ltd.


Anil Mishra
(Authorized Signatory)

Encl.: As above

E-mail - id : corporate@shivacement.com, Phone : (Off) 0661 - 2664168
Website : www.shivacement.com

Contd....P/

SHIVA

CIN: L26942OR1985PLC001557

SHIVA CEMENT LIMITED

AT : TELIGHANA
P.O. : BIRINGATOLI
TEHSIL : KUTRA
DIST. : SUNDARGARH
ODISHA, INDIA,
PIN-770018

:: 2 ::

Copy to:

- 1) The office of the Divisional Forest Officer
At/Po- Sundergarh
Dist-Sundergarh, Odisha
Pin-770001
- 2) The General Manager
District Industries Centre
At/Po- Sundergarh
Dist-Sundergarh, Odisha
Pin-770001
- 3) The Tehesildar
Tehesil- Kutra,
Dist- Sundergarh, Odisha
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SHIVA

CIN: L26942OR1985PLC001557

SHIVA
CEMENT
LIMITED

AT : TELIGHANA
P.O. : BIRINGATOLI
TEHSIL : KUTRA
DIST. : SUNDARGARH
ODISHA, INDIA,
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2

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(Authorized Signatory)

Encl.: As above



Contd....P/2

Received
05.04.2022

E-mail - id : corporate@shivacement.com, Phone : (Off) 0661 - 2664168
Website : www.shivacement.com

SHIVA

CIN: L26942OR1985PLC001557

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