

SHREE RAIPUR CEMENT PLANT



(A UNIT OF SHREE CEMENT LIMITED)

Village : Khaparadih, Tehsil : Simga Distt. : Baloda Bazar-Bhatapara (C.G.) Pin : 493 332, Ph. : 07727-203101

CIN No. : L26943RJ1979PLC001935

SRCP/ENV/2021-22/22

Date: - 24/05/2021

To,

Deputy Director General of Forests (C), Integrated Regional Office Aranya Bhawan, North Block, Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh.

Sub:- Regarding compliance for the period October-2020 to March-2021 to the conditions of Environment Clearance for Expansion of Integrated Cement Plant (Shree Raipur Cement Plant):
 2*2.6 to 3*4.5 Million TPA Clinker, 2*3.0 to 3*5.5 million TPA Cement, 30 to 100 MW Waste Heat Recovery Power Plant, 25 to 125 MW Captive Power Plant along with Synthetic Gypsum Unit (65 TPH) and DG Sets [2000 KVA (size 1000/500/250/125)] near Village Khapradih, Tehsil – Simga in District – Baloda Bazar - Bhatapara (Chhattisgarh) by Shree Raipur Cement Plant (A unit of Shree Cement Limited).

Ref: - Environment Clearance Letter No. J-11011/235/2008- IA II(I) dated 11th September 2019.

Dear Sir,

Kindly refer to the above subjected matter and referred EC letter. We are submitting herewith the point wise Half Yearly EC compliance status for the period of **October-2020 to March-2021**.

This is for your kind information & submission please.

Thanking you. Yours faithfully For Shree Ralpur Cement Plant. (A unit of Shree Cement Ltd.)

R. K. Vijay

R. K. Vijay Joint VP (Operations)

Enclosed: Compliance status Report period October-2020 to March-2021.

Cc to:-

- 1) The In charge (Zonal Office), Central Pollution Control Board (CPCB), 3rd floor, Sahkar Bhawan, North T.T. Nagar, Bhopal 462003 (M.P.)
- 2) The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhavan, North Block, Sector-19 Naya Raipur (C.G)
- 3) The Regional Officer, Chhattisgarh Environment Conservation Board, Commercial Complex, Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur (C.G.) - 492099
- BALODA BAZAR OFFICE : Opp. Dussehra Maidan, Ganesh Chowk, Baloda Bazar-493 332, Ph : 07727-203211, 203210
- RAIPUR OFFICE : House No. 31/248, Civil Lines, Near C.M. House, Raipur-492001, Ph. : 0771-2430007, Fax : 0771-2430007
 REGD. OFFICE : Bangur Nagar, Post Box No. 33, Beawar, 305901, Dist. Ajmer (Raj.)

Phone : 01462-228101-105, Fax : 01462-228117/119, e-mail : shreebwr@shreecementItd.com, Website : www.shreecementItd.com

Compliance Status of Environment Clearance

Period from October-2020 to March-2021

Name of Project:	Shree Raipur Cement Plant (A unit of Shree Cement Ltd)
Capacity:	2*2.6 to 3*4.5 Million TPA Clinker, 2*3.0 to 3*5.5 million TPA Cement, 30 to 100 MW Waste Heat Recovery Power Plant, 25 to 125 MW Captive Power Plant along with Synthetic Gypsum Unit (65 TPH) and DG Sets [2000 KVA (size 1000/500/250/125)]
Location:	Village Khapradih, Tehsil-Simga, Distt Baloda Bazar - Bhatapara (Chhattisgarh)
EC letter No. J-11011/235/2008- IA II (I) dated 11 th September 2019.	

A. Specific Conditions:

S. No	Conditions	Compliance status
T	The limestone for the project shall be sourced only from (i) Existing Captive Semradih & Bharuwadih Limestone (M.L Area - 531.126 ha) and (ii) Karhi Chandi Limestone Mine (ML area 242.127 ha) which are located adjacent to plant site. In case of any change in source of limestone, the project proponent shall obtain prior permission from MoEF&CC.	Noted. Prior permission will be taken from MoEF&CC in case of any change in source of limestone.
Ħ	Project proponent shall conduct health studies in all the villages covered within a radius of 2km radius of the project site for assessment of prevalence of silicosis for once in six months.	We are planning to conduct health studies in all the villages covered within a radius of 2 km of the project site for assessment of prevalence of silicosis by conducting camps. Due to COVID-19 the said health studies could not be carried out.
111	Railway siding shall be completed in a time frame of five years.	Noted.
IV	CER related activities shall be completed within a time frame of three years.	CER related activities shall be completed within three years' time. CER activities & expenditure report is attached as Annexure-1
V	The project proponent shall reduce the abstraction of ground water by shifting the requirement to surface water and regular report shall be submitted to the Regional Office of the Ministry at the interval of six months.	Surface water harvested at our existing mines pit & Rain Water Harvesting pond inside plant area are being used for industrial & process water requirement, water for domestic use is being extracted from Ground water sources.

		Water consumption report is attached as Annexure-2
B. (General Conditions	
I St	tatutory compliance	
i	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	We have obtained Consent to Operate vide letter no. 9505/TS/CECB/2021, dated 02/02/2021 & Consent to Establish for expansion vide letter No. 10020/TS/CECB/2020, Dated: 12.02.2020 from Chhattisgarh Environment Conservation Board.
II	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	We have obtained ground water NOC from CGWA for withdrawal of 3000 KL/ Day ground water vide Letter No. 21-4(36)/NCCR/CGWA/2008-2079, Dated: - 24.10.2018 valid up to 07.04.2023.
111	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	We have obtained authorization under the Hazardous and other Waste Management Rules, 2016 vide Letter No. 11201/HSMD/HO/CECB/2021 dated – 18.03.2021 valid up to 03.02.2024.
II A	Air quality monitoring and preservation	
I	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement)and 10th May, 2016(Co- processing Cement); 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.	We have installed Continuous Emission Monitoring System at all stacks to monitor stack emission as per prescribed standards and the data is being transmitted to both CECB & CPCB servers. Calibration of installed Continuous Emission Monitoring System are also being done on regular basis. Photographs of the same are attached as Photo No. 1, 2 & 3.
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.	Fugitive emission monitoring is being done in the plant premises on regular basis through labs recognized under Environment (Protection) Act, 1986. Fugitive Emission Monitoring Reports are attached herewith as Annexure-3 .

iii	The project proponent shall install system carryout to Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NOx in reference to SO ₂ and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 ⁹ each), covering upwind and downwind directions.	We have Installed 4 nos. of CAAQMS for the monitoring of the parameters PM ₁₀ , PM _{2.5} , SO ₂ and NOx within and outside the plant area. Photographs of the same are attached as Photo No. 4, 5, 6 & 7 .
iv	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Monthly summary reports attached in Annexures are as follows. 1. Continuous & Manual stack monitoring report Annexure-4. 2. Continuous & Manual Air quality monitoring report- Annexure-5. 3. Fugitive emission monitoring is attached as Annexure-3.
V	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Unit has installed Appropriate Air Pollution Control (APC) measures at all the dust generating points including fugitive dust from all vulnerable sources to comply with prescribed standards. List of Air Pollution Control (APC) system is attached as Annexure-6 .
vi	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Installed provision for leakage detection and mechanized bag cleaning facility for better maintenance of bags.
vii	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	Compliance status of conditions mentioned in CREP is attached herewith as Annexure-7.
VIII	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Provided four Numbers of heavy duty sweeping machines for regular sweeping of all plants roads, shop floors on regular basis. Photograph of sweeping machines are attached as Photo -8 & 9 .
ix	Recycle and reuse lime fines, coal fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after agglomeration.	Dust collected from pollution control devices and vacuum cleaning devices is being totally recycled & reused in the process of cement manufacturing.
X	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;	All the Environment protection measures have been taken to reduce impact on surrounding environment. All raw materials are being

		 transported in tippers/trucks covered by tarpaulin to prevent spillage and dust generation. Limestone and other material is transported through covered conveyor belts. Fly ash transportation is being done in closed bulkers. Photographs of the same is attached as Photo no 10 & 11.
xi	Provide wind shelter fence and chemical spraying on the raw material stock piles; and	Covered storage shed have been provided for stockpiles of Limestone, Coal & Gypsum. Photographs of covered stock yard is attached as Photo no 12.
xii	Provide Low NOx burners as primary measures and SCR /NSCR technologies as secondary measure to control NOx emissions. Have separate truck parking area and monitor vehicular emissions at regular interval.	Installed Low NOx burners as primary measure to control NOx emissions. And provided separate truck parking area with basic amenities and vehicles with PUC are allowed.
xili	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.	All the Environment protection measures has been taken to reduce impact on surrounding environment. The raw material i.e. limestone is transported to plant with help of covered conveyor belts and end product Cement & Clinker being transported in trucks covered with tarpaulin. Photographs of covered conveyor belt is attached
xiv	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.	as Photo no 13 & 14 . Ventilation system has been designed as per ACGIH specifications at all tunnels, motor houses, cement bagging/Packing plants area.
III. V	Vater quality monitoring and preservation	
1	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 9th May, 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	Not applicable as no effluent is generated from the Cement plant process as the cement manufacturing is based on dry process technology. However, treated waste water from WTP is being reuse in process. Zero effluent discharge is being maintained inside/outside of plant premises.

	to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	
11	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	basis (pre and post monsoon) through labs recognized under EPA, 1986 and NABL accredited lab.
III	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	No effluent is generated from the Cement plant process as the cement manufacturing is based on dry process technology. The monitoring report of ground water quality for pre and post monsoon period is attached as Annexure-8 .
iv	Adhere to 'Zero Liquid Discharge'.	Cement manufacturing is based on dry process technology. Zero effluent discharge is being maintained inside/outside of plant premises.
v	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Installed 2 Nos. of STP with 40 KL capacity each for treatment of Domestic sewage which is generated from offices & canteen and treated wastewater quality is as per prescribed standards. Photographs of STP is attached as Photo no. 15 . The STP water quality report is attached as Annexure-9 .
vi	Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.	The raw material stock piles are kept under covered shed. So, no surface runoff is generated from stock pile.

vii	The project proponent shall practice rainwater harvesting to maximum possible extent.	construct 2 X 1,00,0 The phote	ed 2 Nos. of Rain wa 100 KL capacity pon	water, the project has ater harvesting ponds. ds each in plant area. ter harvesting ponds 5 & 17.
Viii	Water meters shall be provided at the inlet to all unit processes in the cement plant.	unit proce	esses in the plant. Ths of digital flow m	eter at the inlet of all neters are attached as
ix	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Not Applie	cable for Cement pl	ant.
IV. N	loise monitoring and prevention			
i	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	prescribed The noise	d guidelines on reg e monitoring rep 2020 to March, 2	arried out as per the ular basis. ort for the period 2021 is attached as
11	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Regular monitoring of ambient noise levels is being carried out and the results are well within the norms. Ambient noise monitoring results during the period October, 2020 to March, 2021 is attached as Annexure-10 .		
V. Er	nergy Conservation measures			
1	Waste heat recovery system shall be provided for kiln and cooler.	55 MW for		y system of capacity from the waste heat
ii	The project proponent make efforts to achieve power consumption less than 65 units/tone for Portland Pozzolona Cement (PPC) and 85 units/tone for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	consumpti	_	e to achieve power rgy consumption for
_		Year	Power consumption for cement production	Thermal energy consumption for Clinker
		2019-20	62.26	714

		2020-21 61.65 724
Ш	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.	colony area. Further we are planning to layout for
iv	Provide the project proponent for LED lights in their offices and residential areas.	Provided LED lighting fixtures in all office areas. Photographs of the same is attached as Photo no. 20.
V	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.	Continuous efforts have been made for use of maximum fly ash in making PPC cement as per BIS standards. During the April-2020 to March-2021 total 6,21,285 MT fly ash used for PPC manufacturing in existing cement plant.
vi	maximize utilization of alternate fuels and Co- processing to achieve best practice norms.	For utilization/co-processing of Hazardous wastes in Cement kiln. We have obtained the authorization for various types of hazardous waste from CECB and Co-processing of hazardous & non- hazardous waste such as ETP sludge, Organic residue, Process residue from pharmaceutical industries including RDF/MSW in cement kiln. Further we will explore the higher calorific wastes material for co-processing as AFR in our cement plant.
VI.	Waste management	
i	Used refractories shall be recycled as far as possible.	The used refractories are being sold to vendors for recycling.
II	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	The used/spent oil generated are stored in earmarked area with concrete flooring and is only sold to CPCB/ SPCB authorized parties.
111	Kitchen waste shall be composted or converted to biogas for further use.	Waste generated from kitchen is converted into manure which is used as bio-fertilizer in green belt development.
VII.	Green Belt	
i	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt	Out of Total plant area of 159.256 hectare, Green belt has been developed on 42.1 Hectare (26.4%)

	shall inter alia cover the entire periphery of the plant	area with 1,02,176 Nos. of saplings along with entire periphery of the plant.
		Additionally, under Hariyar Chhattisgarh project we have planted 15,000 saplings near school of Bharuwadih, Semradih, Khapradih, Chandi, Karahi & Parkidih villages. Road side plantation of about 10 KM on both side of road from Bharuwadih to Chandi village has been done. And we have also planted 15,050 saplings at Bhatapara. Apart from that 2,000 sapling has been planted near the Logistic building.
		Local native species viz. Neem, Karanj, Platofarm, Cassia Siamea, Shisham etc. are planted to increase the survival rate.
11	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programmer for reduction of the same including carbon sequestration including plantation.	During the year 2019-20 3060.27 Ton of CO2 sequestered by the trees plantation.
		During the year 2019-20 CO2 generation from the existing operation is 34,52,484 Tons and carbon sequestrated during the year 2019-20 is 3060.27 Ton.
VIII	. Public hearing and Human health issues	
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	The emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is implemented.
11	The PP 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 of Factory Act.	Being Complied
111	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary	Provided temporary housing structures with all necessary infrastructure and facilities such as fuel for cooking, toilets, STP, safe drinking water, medical health care etc. for construction workers.
	structures to be removed after the completion of the project.	
iv	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health programs are conducted on regular basis and records being maintained by the Occupation Health Center (OHC).

		During the period of October, 2020 to March, 2021 total 5089 Nos. health checkup conducted.
		A sample copy of Occupational health surveillance is attached as Annexure-11 .
IX.	Corporate Environment Responsibility	
i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	have been incorporated in CSR activities. Details of expenses for CSR activities from April- 2020 to
11	The company shall have a well laid down 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 shareholder's / 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.	Annexure-13.
i	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.	project and company head quarter level with qualified person under the control of Jt. Vice
iv	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	The funds earmarked for Environmental Protection measures are being utilized for the same and Total expenditure incurred during the period April-2020 to March-2021 is attached as Annexure – 15.
/	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted

vi	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.	implemented. Compliance status of CREP
х. і	Miscellaneous	
1	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.	Advertised the environment clearance in two different newspapers with one in vernacular language "Dainik Bhaskar" & "Times of India" dated 14.09.2019 within the stipulated time period. The copy the EC letter has been put on the company website that can be downloaded from by the following link <u>www.shreecement.com</u> The copy of advertisement is attached as Annexure-16.
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.	Copy of EC letters have been submitted to the respective Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government date 13.09.2019 for their information.
111	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.	The status of compliance of the stipulated environment clearance conditions, including results of monitored data uploaded on the company's website <u>www.shreecement.com</u> i.e. on half yearly basis.
iv	The project proponent shall monitor the criteria pollutants level namely; PM10, S02, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	The monitoring data of ambient monitoring quality & stack emission is uploaded on our company website <u>www.shreecement.com</u> periodically i.e. on half yearly basis . Monitoring data of existing cement plant is being displayed at main gate of the company in the public domain. Photograph of the same is attached as Photo no. 21.
V	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.	The Six monthly compliance reports on the status of the compliance of the stipulated environmental conditions is uploaded on the website of the MoEF&CC at Environment Clearance portal.
vi	The project proponent shall submit the environmental statement for each financial year in	The Environment statement for each financial year in FORM-V is submitting regularly to the

	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.	prescribed under the Environment (Protection) Rules, 1986, and the copy of the same is also being uploaded in the company's website i.e. <u>www.shreecement.com</u>
VII	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	
VIII	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted
ix	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	All the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing are being complied.
x	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. Prior approval shall be obtained from MoEFCC in case of any expansion or modification in the plant.
xi	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
xii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xiii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
xiv	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted

xv	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter	
xvi	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

For Shree Raipur Cement Plant (A unit of Shree Cement Ltd.)

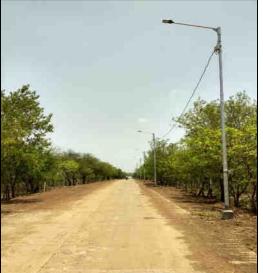
R K Vijay Joint VP (Operations) Enclosed: - As above

Annexure-1

Shree Raipur Cement Plant (A unit of Shree Cement Limited) CER Expenditures FY - 2020-21

S.No.	AREA OF CER	Expenditure in (Rs.)
		(KS.)
1	Renovation of public health center of village Khaparadih,	Construction of Public Toilet at
	Semaradih, Bharuadih, Chandi & Karhi. 1. Construction of Male, Female and child ward 15 nos.	Village- Chandi – 2,24,295
	2. Construction of Male & Female toilet 20 nos.	
	3.Water cooler 05 nos.	
	4. Ambulance – 05 nos.	
2	Health management center with full-fledged medical	Administrative expenses of Health
2	check-up, doctors and nursing staff, free medicines and 10	Management Centers including
	beds for male & female ward for primary health treatment	medicines, ambulance maintenance
	and availability of 24x7 ambulance at village Bharuadih.	and running charges- 8,54,080
FDUCA	TION AND SPORTS PROMOTION	
3	Renovation of Govt. schools of village Khaparadih,	
J	Semaradih, Bharuadih, Chandi & Karhi.	
	1. Construction of rooms: 25 rooms.	
	2. Construction of Male & Female toilet: 30 nos.	
	3.Water cooler 05 nos.	
	4. Computers labs- 05 nos.	
	5. Furniture's	
4	English medium school of 12 th standards at village	15,57,00,000
	Bharuadih.	
5	Sports complex in village Khaparadih and Bharuadih.	
	1. Construction of rooms: 2 rooms.	
	2. Construction of Male & Female toilet: 04 nos.	
	3.Water cooler 02 nos.	
	4. Preparation of playground: 02 nos.	
	5. Sports equipment's - 02 sets	
	UNITY INFRASTRUCTURE DEVELOPMENT PROJECTS	
6	Construction of roads in village:	CC Road at Village- Chandi and CC
	1. Bharuadih : 02 Kms.	road work at moksh dham at chandi
	2. Chandi : 03 Kms.	village – 3,78,126
		Construction of CC Road at Village-
		Bhruadih (Colony)- 23,32,266
		CC Road at Village- Pausari- 1,26,052
		Traffic road barrier – 50,479
7	Construction of community center at village Khaparadih,	Constructruction of community hall
	Semaradih, Bharuadih, Chandi & Karhi : 05 Nos.	at Karhi- 3,59,534
		Construction of Rangmanch at
		Bharuadih – 2,62,951

		Construction of Rangmanch at Chandi – 1,85,021 Construction of Jai Stambh at Village- Bhruadih – 1,46,364 Costruction of Comunity hall- Village Bhruadih – 2,07,810 Construction of Temple at Village- Bharuadih – 1,50,847 Construction Of Jyoti Kaksh At Pausari – 1,39,267
8	Drinking water tank at village Lohari & Paunsari	Drinking water pipeline for Village Sehmradih- 4,45,490 Extension of drinking water pipeline at Village Bhruadih – 22,686
9	Renovation of existing water ponds for rainwater recharge and plantation all around the boundary of pond at village Khaparadih, Semaradih, Bharuadih, Chandi & Karhi.	Pond deepening work at village – Bhruadih – 6,854
10	Subsidy on drip irrigation system, seeds and agroforestry in 100 Ha agriculture land in nearby village Khaparadih, Semaradih, Bharuadih, Chandi & Karhi	
11	Plantation in nearby villages along the roads, Govt. offices, and available free space at village Khaparadih, Semaradih, Bharuadih, Chandi & Karhi @ 5000 per year.	Plantation in nearby villages – 1,81,844 Grill fixing & plantation work between divider at distt. balodabazar main road- 19,88,026
12	Installation of solar street lights at community center, common area, dispensary, bus stand and school at village Khaparadih, Semaradih, Bharuadih, Chandi & Karhi.	
	Total	16,37,61,992



Construction of CC road at Bharuadih



Construction of Rangmanch at Bharuadih



Construction of Rangmanch at Chandi

्री कारुण्यूत ट्रस्ट के सीजन्य से ग्राम चपदी में शीचाहर का विसीण



Construction of community hall at Bharuadih



Construction of Public toilet at Chandi



Construction of Jai Stambh at Bharuadih

Traffic road barrier

Grill fixing & plantation work at Balodabazar Main road

		Annexure -
	Shree Raipur Cement Plant	
	(A Unit of Shree Cement Limite	ed)
	Water Consumption Report for the October-2020 to March-202	
Month	Process/ Industrial Water	Domestic Water
Oct-20	21707	20991
Nov-20	15274	24220
Dec-20	16499	27137
Jan-21	19302	29935
Feb-21	27085	20723
Mar-21	30654	28835
Total	130521	151841
Ар	pproved Quantity	3000 KL/ Day



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TEST REPORT

AMBIENT AIR (QUALITY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd). Village – Khapradih, Tehsil – Simga, Dist: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No:-CES/ Issue Date : 23.03.2021 Client Ref: Nil Date : Nil	LAB/20-21/ <i>3 ං</i> ታ
Method of test : IS: 5182 Part - 5: 1975	Sampling Details	
Test required: As per work order	Sample Monitored	: Fugitive Dust monitoring
Sample Collected By:- Gatih Laboratories	Date of Sampling	: 17.03.2021 to 18.03.2021
Instrument to be used: Eco Tech FDS	Date of Receipt	: 19.03.2021
Atmospheric condition : OK	Period of testing	: 19.03.2021 to 23.03.2021
Page : 1 of 2	Duration of sampling	: 24 hrs

and the second sec	AMBIENT AIR	QUALITY RESULTS		
Parameters	Fugitive	1		n
		L.S Crusher Load Center	Nr. Mines	Nr. Packing Plant
Ambient Temp. (°C)		30	30	30
Wind direction		W	w	w
Wind speed km/h		11	11	11
Relative Humidity %	la la	58	58	58
Parameters				
Suspended Particulate matter $(\mu g/m^3)$.	5000	1863.00	2246.00	2415.00
	ParametersAmbient Temp. (°C)Wind directionWind speed km/hRelative Humidity %ParametersSuspended Particulate matter	Parameters Fugitive Ambient Temp. (°C) Wind direction Wind speed km/h Relative Humidity % Parameters Suspended Particulate matter	Parameters Fugitive Pol L.S Crusher Load Center Ambient Temp. (°C) 30 Wind direction W Wind speed km/h 11 Relative Humidity % 58 Parameters 5000 Suspended Particulate matter 5000	Ambient Temp. (°C) Source Nr. Mines Wind direction 30 30 Wind speed km/h 11 11 Relative Humidity % 58 58 Parameters 5000 1863.00 2246.00

For CES Analytical and Research Services (1) Pvj. Ltd

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#The Results relate only to the sample tested/ sampled

42, 48, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510

Email: cesanalytical@gmail.com, creativelab.bpl@gmail.com, Websearch : www.creativeenviroservices.com Note:

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Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN: U74999MP2020PTC052747

TEST REPORT

AMBIENT AIR (UALITY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd). Village – Khapradih, Tehsil – Simga, Díst: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No:-CES/ Issue Date : 23.03.202 Client Ref: Nil Date : Nil	LAB/20-21/Ĵ ≁O I
Method of test : IS: 5182 Part - 5: 1975	Sampling Details	
Test required: As per work order	Sample Monitored	: Fugitive Dust monitoring
Sample Collected By:- Gatih Laboratories	Date of Sampling	: 17.03.2021 to 18.03.2021
Instrument to be used: Eco Tech FDS	Date of Receipt	: 19.03.2021
Atmospheric condition : OK	Period of testing	: 19.03.2021 to 23.03.2021
Page : 2 of 2	Duration of sampling	: 24 hrs

	AMBIENT AIR Q	UALITY RESULTS	
S. No.	Parameters	Fugitive	Pollutant Concentration Nr. Coal Crusher Building
1	Ambient Temp. (°C)		30
2	Wind direction		W
3	Wind speed km/h		11
4	Relative Humidity %		58
	Parameters		
1	Suspended Particulate matter (µg/m³).	2000	924.00

For CES Analytical and Research Services (1) Pvp. Ltd

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#The Results relate only to the sample tested/ sampled

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Email: cesanalytical@gmail.com, creativelab.bpl@gmail.com, Websearch : www.creativeenviroservices.com Note:

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Annexure - 4

Shree Raipur Cement Plant (A Unit of Shree Cement Ltd)

Online CEMS Stack Emission Monitoring Report (Monthly Average Values)

						dave Smith		AV AITTI	crage va	lues					
Name (Name of Stacks	Cement Mill	Coal Mill Stack-I	Coal Mill Stack	Clinker Cooler Stack-I	Cooler Stack-II	Raw M	ill & Kiln	Raw Mill & Kiin Stack -I	Raw N	Raw Mill & Kiln Stack -II	Stack -II	Captiv	Captive Power plant Stack	piant
S. No.	Month	M	M	Md	M	Md	Md	S 02	NOX	M	\$02	Ň	M	S02	NOX
Norms {r	Norms (mg/Nm3)	30	30	30	30	30	30	100	600	30	100	009	9	600	Ş
1	Oct-20	14.32	16.18	15.68	10.71	12.44	8.87	0.22	361.92	11.80	0.08	380.96	33.25	171.68	178 QK
2	Nov-20	12.16	16.06	15.46	10.52	12.96	8.56	00	407 1.R	12.06	000	01004			2001
										2	00.0	470-T2	18.25	1/.651	231.86
n	Dec-20	13.01	11.96	11.27	10.00	12.11	8.62	0.00	407.06	12.88	00.00	452.81	32.75	276.56	82.88
4	Jan-21	13.62	14.37	13.70	11.11	8.05	9.50	0.07	452.47	12.11	0.00	486.05	30.54	200 1E	00 10
S	Feb-21	14.68	14.40	11.65	11.27	6.61	9.74	0.02	359.70	13.27	000	402.02	32.76	104.00	07:00
و	Mar-21	14.55	14 59	13 10	21.24								0/.00	06.401	0C.201
					+7'TT	10/	9.65	0.00	407.34	15.35	0.00	370.10	33.77	254.57	72.62



R & D

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Report No:-GCI/V/ŁAB/EM-G0121/19-SP/19-20/ October -00/0341

ANALYSIS REPORT

Date: 31/10/2020

Client Det	alls		f October- 2020) Sample Details		
Name	M/s. SHRE	E RAIPUR CEMENT PLANT			
	A Unit of	M/s.Shree Cement Ltd), Village	Location	GCI/V/20/J4/SSP/ST7 Raw mill & Kiln Line-1	
Address	Raipur, Cl	ih, Dist:Baloda Bazar-Bhatapara, nattisgarh-492001	Date of Sampling	23/10/2020	
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	27/10/2020	
Dale of Ar		27/10/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1,2,3	
Date of Completion		n 31/10/2020	Location Co-ordinates	21°36'10" N 82°02'29" F	
Time of Sa	mpling	12:15 PM	Stack Shape at Top	Round	

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results
18	Stack Height		
2.	Diameter	Mt.	150
3.		Mt.	5.0
	Stack Temperature	°C	87
4.	Ambient Temperature	°C	
5.	Velocity		38
6.	Type of fuel used	m/sec.	9.4
7	Volumentie Element		Coal/PC
1.	Volumetric Flow Rate	Nm³/hr.	550235.71
8.	Moisture		to the second
9.	Stack Attached to	%	4.2
			RABH

Sr. No.	Parameters	Ųnit	CEMS Reading	Results	Norms	Reference Method
l,	Particulate Matter	mg/Nm³	10.72	11.65	30	IS 11255 (Part 1):1985 RA2014
-	Sulphur Dioxide (as SO ₂)	mg/Nm ³	0	0	100	IS 11255 (Part 2):1985 RA2014
3.	Oxides of Nitrogen (as NO2)	mg/Nm ³	353	365	600	IS 11255 (Part 7):2005 RA2017

Authorized Signatory

Analysis is subject to the condition in Which the Sample is received at our Laboratory.

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Sample will be retained till one month from the date of sampling.



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ October -00/0341

Date: 31/10/2020

	A	N	A	LY	SIS	RI	EP	O	RT	
(For	100		-			10.00	-	-	-	201

Client Det		The me month of	Sample Details		
Name M/s. SHREE RAIPUR CEMENT PLANT		Sample Code	GCI/V/20/J4/SSP/ST5		
(A Unit		M/s.Shree Cement Ltd), Village -	Location	Clinker Cooler Line-1	
Address	Raipur, Cl	n Dist:Baloda Bazar-Bhatapara, nattisgarh-492001	Date of Sampling	23/10/2020	
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	27/10/2020	
Date of Analysis		27/10/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1	
	mpletion	31/10/2020	Location Co-ordinates	21°36'11" N 82°02'31" E	
Time of Sa	mpling	03:15 PM	Stack Shape at Top	Round	

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results
1.	Stack Height	Mt.	E.C.
2,	Diameter	Mt.	55
3.	Stack Temperature	°C	4.3
4.	Ambient Temperature	<u>°C</u>	150
5.	Velocity	m/sec.	35
6.	Volumetric Flow Rate	Nm³/hr.	7.84
7.	Moisture	the second se	288865.73
8.	Stack Attached to	%	3.5
1000			ESP

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
1.	Particulate Matter	mg/Nm ³	10.84	11.85	30	IS 11255 (Part T):1985 RA 2014



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ October -00/0341

Date: 31/10/2020

Cilent Dei	alis	(For the Month of	Sample Details		
Name		E RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/J4/SSP /ST6	
(A Unit of		M/s.Shree Cement Ltd], Village –	location	Coal mill Line-1	
Address	Raipur, Ct	n Disl:Baloda Bazar-Bhatapara, hattisgarh-492001	Date of Sampling	23/10/2020	
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	27/10/2020	
Date of Ar	nalysis	27/10/2020	Sampling Method0	Isokinelic Sampling, IS:11255, PART-1	
	mpletion	31/10/2020	Location Co-ordinates	21°36'05" N 82°02'26" E	
Time of So	Impling	11:00 AM	Stack Shape at Top	Round	

ANALYSIS REPORT

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Ųnit	Results
1¥	Stack Height	Mt.	68
2.	Diameter	Mt.	1.6
З.	Stack Temperature	°C	74
4.	Ambient Temperature	2°	30
5.	Velocity	m/sec.	7.88
6.	Volumetric Flow Rate	Nm³/hr.	48027,56
7.	Moisture	%	4.2
8.	Stack Attached to		Bag house

Sr. No,	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
1.	Particulate Matter	mg/Nm ³	19.76	21.22	30	IS 11255 (Part 1):1985 RA 2014



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ October -00/0341

Date: 31/10/2020

Client Det	alls	(For the Month of	Sample Details	
Name		E RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/J4/SSF/ST2
(A Unit of M/s.Shree		M/s.Shree Cement Ltd), Village -	Location	Cement Mill
		n,Dist:Baloda Bazar-Bhatapara, nattisgarh-492001	Date of Sampling	23/10/2020
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	27/10/2020
Date of Analysis		27/10/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1
	mpletion	31/10/2020	Location Co-ordinates	21°36'11" N 82°02'29" E
Time of Sa	Impling	09: 30 AM	Stack Shape at Top	Round

ANALYSIS REPORT

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results
1.	Stack Height	Mt.	42
2.	Diameter	Mt.	2.8
3.	Stack Temperature	°C	94
4.	Ambient Temperature	°C	28
5.	Velocity	m/sec.	8.02
6.	Volumetric Flow Rate	Nm ³ /hr.	144413.50
7.	Moisture	%	3.3
8.	Stack Attached to	- //	Bag House

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
18	Particulate Matter	mg/Nm³	16.55	17.83	30	IS 11255 (Part 1):1985 RÅ 2014



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ October -00/0341

Date: 31/10/2020

Client Det	alls		of October- 2020) Sample Details		
Name	M/s. SHRE	E RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/J4/SSP/ST9	
	(A Unit of	M/s.Shree Cement Ltd),	Location	Raw mill & Kiln Line-2	
Address	Bhatapar	hapradih, Dist; Balada Bazar- a, Raipur, Chattisgarh-492001	Date of Sampling	24.10.2020	
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	27/10/2020	
Date of Analysis		27/10/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1,2,3	
Date of Ca		31/10/2020	Location Co-ordinates	21°36'07" N 82°02'29" E	
Time of Sa	mpling	02:20 PM	Stack Shape at Top	Round	

ANALYSIS REPORT

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results
- 1e	Stack Height	Mt.	175
2.	Diameter	Mt.	5.6
3.	Stack Temperature	°C	90
4,	Ambient Temperature	°C	39
5.	Velocity	m/sec.	8.9
6.	Type of fuel used		Coal/PC
7.	Volumetric Flow Rate	Nm ³ /hr.	516587,19
8.	Moisture	%	4.4
9.	Stack Attached to		RABH

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
L.	Particulate Matter	mg/Nm ³	14.76	15.72	30	(\$ 11255 (Part 1):1985 RA2014
2.	Sulphur Dioxide (as SO ₂)	mg/Nm³	0	0	100	IS 11255 (Part 2):1985 RA2014
3.	Oxides of Nitrogen (as NO ₂)	mg/Nm³	384.75	420	600	IS 11255 (Part 7):2005 RA2017

Authorized Signatory

Analysis is subject to the condition in Which the Sample is received at our Laboratory.

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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ October -00/0341

Date: 31/10/2020

Client Det			Sample Details	
Name	M/s. SHRE	É RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/J4/SSP/ST8
	(A Unit of	M/s.Shree Cement Ltd),	Location	Clinker Cooler Line-2
Address	Village –Khapradih, Dist:Baloda Bazar- Bhatapara, Raipur, Chattisgarh-492001		Date of Sampling	24/10/2020
Sampling I	Done By	GCI REPRESENTATIVE	Date of Sample Received	27/10/2020
Date of An	alysis	27/10/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1,2,3
Date of Completion 31/10/2020		Location Co-ordinates	21°36'06" N	
Time of \$a	mpling	03:30 PM	Stack Shape at Top	82°02'32" E Round

ANALYSIS REPORT

Sr. No.	Parameters	Unit	Results
1.	Stack Height	Mt.	
2.	Diameter		60
3.	Stack Temperature	Mt.	4.3
	stock temperature	°C	120
4.	Ambient Temperature	2°	the second se
5.	Velocity	m/sec.	32
6.	Volumetric Flow Rate		7.58
7		Nm³/hr.	300649.88
1.	Moisture	%	3.5
8.	Stack Attached to		
			ESP

Sr. No.	Parameters	Unit	Opacity Meter Reading	Results	Norms	Reference Method
1.	Particulate Matter	mg/Nm ³	11.62	12.43	30	IS 11255 (Part 1):1985 RA2014

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Report No:-GCI/V/LA8/EM-G0121/19-SP/19-20/ October -00/0341

Date: 31/10/2020

Client Del	alls		October - 2020) Sample Details	
Name	M/s. SHRE	E RAIPUR CEMENT PLANT	Sample Code	COUNTAIRCOUTA
Address	(A Unit of	M/s.Shree Cement Ltd), Village	Location	GCI/V/20/J4/SSP/ST Coal Mill Line-2
	-Khaprddih, Dist:Baloda Bazar-Bhatapara, Raipur, Chattisgarh-492001		Date of Sampling	24/10/2020
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	27/10/2020
Date of Ar	alysis	27/10/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1
Date of Completion		31/10/2020	Location Co-ordinates	21°36'02" N 82°02'27" E
Time of Sa	mpling	05:00 PM	Stack Shape at Top	Round

ANALYSIS REPORT

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results
1.	Stack Height		
2.	Diameter	Mt.	68
3.	Stack Temperature	Mt.	1.6
4.	Ambient Temperature	°C	76
5.	Valasity	C	31
	Velocity	m/sec.	8.22
6. 7.	Volumetric Flow Rate	Nm3/hr.	49777.31
7.	Moisture	%	3.1
8.	Stack Attached to	*	Bag House

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
E.	Particulate Matter	mg/Nm ³	19.05	18.32	30	IS 11255 (Part 1):1985 RA 2014



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- Analysis is subject to the condition in Which the Sample is received at our Laboratory.
- Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission.
- Sample will be retained till one month from the date of sampling.



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(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LA8/EM-G0121/19-SP/19-20/ October -00/0341

Date: 31/10/2020

Authorized Signatory

Client Det			of October- 2020) Sample Details	
Name	M/s. SHRE	E RAIPUR CEMENT PLANT	Sample Code	CONVICTION
d al da a a	A Unit of	M/s.Shree Cement Ltdl	Location	GCI/V/20/J4/SSP/ST10 CPP 25 MW
Address	Village – Khapradih, Dist: Baloda Bazar- Bhatapara, Raipur, Chattisgarh-492001		Date of Sampling	23/10/2020
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	27/10/2020
Date of Ar	alysis	27/10/2020	Sampling Method	Isokinefic Sampling, IS:11255, PART-1,2,3
Date of Completion 31/10/2020		31/10/2020	Location Co-ordinates	21°36'10" N
Time of Sampling		Stack Shape at Top	82°02'29" E Round	

ANALYSIS REPORT

STACK MONITORING ANALYSIS RESULTS

No.	Parameters	Vnit	Results
1.	1. Stack Height		
2.	Diameter	* Mt.	92.0
3.	Stack Temperature	Mt.	3.67
4.	Ambient Temperature	°C	135
_	Ambient Temperature	°C	35
5.	Velocity	m/sec.	
6.	Type of fuel used	11/380.	7.35
7.	Volumetric Flow Rate		Coal
8.	Moisture	Nm³/hr.	204470.95
	Stack Attached to	%	3.0
~ .		-	ESP

Sr. No,	Parameters	Unit	Opacity Meter Reading	Results	Norms	Reference Method
1	Partículate Matter	mg/Nm³	28.76	31.44	50	IS 11255 (Part 1): 1985 RA 2014
2.	Sulphur Dioxide (as SO2)	mg/Nm³	111.91	120.41	600	IS 11255 (Part2): 1985 RA 2014
	Oxides of Nitrogen (as NO ₂)	mg/Nm ³	220.57	238.42	300	IS 11255 (Part 7): 2005 RA 2014
4.	Mercury (as Hg)	mg/Nm³		0.004	0.03	LATS/80/2013-14 CPCB

Analysis is subject to the condition in Which the Sample is received at our Laboratory. Reports cannot be used as evidence anywhere including Judiciary purpose without our prior permission

Sample will be retained till one month from the date of sampling.

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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ November -00/0342

Date: 13/11/2020

Client Del	alls	For the Month of	November- 2020)	
Name	M/s. SHRE	E RAIPUR CEMENT PLANT	Sample Details	
	I (A Unit of	M/s Shree Comentities and	Sample Code	GCI/V/20/K1/SSP/STI
Address	-Khaprad	lih, Dist:Baloda Bazar-Bhatapara,	Location	Raw mill & Kiln Line-1
_	Raipur, Chaltisgarh-492001		Date of Sampling	04/11/2020
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	07/11/2020 Isokinetic Sampling,
Pate of An	atysis	07/11/2020	Sampling Method	
Date of Completion		13/11/2020		IS:11255, PART-1,2,3
Time of Sampling			Location Co-ordinates	21°36'10" N 82°02'29" E
of our	riping	11:00 AM	Stack Shape at Top	Round

ANALYSIS REPORT

STACK MONITORING ANALYSIS RESULTS

No.	Parameters	Unit	
1.	Stack Height		Results
2.	Diameter	Mt.	150
3.	Stack Temperature	Mt.	5.0
4.	Ambient Temperature	°C	86
5.	Velocity	C	30
6.	Type of fuel used	m/sec.	7.8
7.	Volumetric Flow Rate		Coal/PC
8.	Moisture	Nm³/hr.	457850.38
9.	Stack Attached to	%	4.1
	A second s		RABH

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
1.	Particulate Matter	mg/Nm ³	8.34	9.15	30	IS 11255 (Part 1):1985
2,	Sulphur Dioxide (as SO ₂)	mg/Nm ³	0			RA2014 IS 11255 (Part 2):1985
3.	Oxides of Nitrogen			0	100	RA2014
	(as NO ₂)	mg/Nm ⁹	371.09	390.47	600	IS 11255 (Part 7):2005 RA2017

Authorized Signatory

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Sample will be retained till one month from the date of sampling.

CORP. OFFICE & : Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Vadodara - 390 021 (Gujarat), INDIA. Tel.: +91 - 265 - 2371269 Cell: +91 93285 83835 Email: info@greencircleinc.com Website: www.greencircleinc.com



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ November -00/0342

Date: 13/11/2020

ANALYSIS REPORT

Client De	alls	(For the Month of N	lovember- 2020)	
Name M/s. SHREE RAIPUR CEMENT PLANT		Sample Details		
(A Unit o		M/s.Shree Comont Ltub Ltd	Sample Code	GCI/V/20/K1/SSP/ST5
Address	in apricadi	LUDI DOLOGO BOYOF RECTOR	Location	Clinker Cooler Line-1
Raipur, C Sampling Done By		hattisgarh-492001	Date of Sampling	03/11/2020 07/11/2020
		GCI REPRESENTATIVE	Date of Sample Received	
Date of An	nalysis 07/11/2020			
Date of Completion			Sampling Method	Isokinetic Sampling, IS:11255, PART-1
lime of Sampling		13/11/2020	Location Co-ordinates	21º36'11" N
		04:10 PM	Stack Shape at Top	82°02'31" E
			the strape of top	Round

Sr.	STACK MONITORING	ANALYSIS RESULTS	
No.	Parameters	Unit	
1.	Stack Height		Results
2.	Diameter	Mt.	55
3.	Stack Temperature	Mt.	4.3
4.	Ambient Temperature	°C	112
5.	Velocity	°C	31
6.	Volumetric Flow Rate	m/sec.	5.9
7.	Moisture	Nm³/hr.	238842.50
8.	Stack Attached to	%	3.5
		-	ESP

Sr.		1				
No.	Parameters	Unit	CEMS Reading 10.29	Results	Norms	Reference Method
1.	Particulate Matter	and a Ball of		11.25	30	
	Gricoidia Malter mg/Nm3	mg/Nm ³				IS 11255 (Part 1):1985 RA 2014

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Report No:-GCf/V/LAB/EM-G0121/19-SP/19-20/ November-00/0342

Date: 13/11/2020

Client De		(For the Month of N	ovember- 2020)	
Name	ame M/s. SHREE RAIPUR CEMENT PLANT		Sample Details	
*	I IA UNIT OF	M/s.Shree Comont Line Mar	Sample Code	GCI/V/20/K1/SSP/ST6
Address	in aprodul	USL BOIOGO BOTOR Bhotom	Location	Coal mill Line-1
Raipur, C		nattisgarh-492001	Date of Sampling	04/11/2020
Sampling Done By		GCI REPRESENTATIVE	Date of Sample Received	07/11/2020
Date of An	alvsk	07/11/2020	Received	
	-	0//11/2020	Sampling Method@	Isokinetic Sampling.
Date of Completion		13/11/2020	Looghten Co	IS:11255, PART-1 21°36'05" N
		11:30 AM	Location Co-ordinates	82°02'26" E
		11.50 AM	Stack Shape at Top	Round

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	IG ANALYSIS RESULTS	
T a	Stack Height	Unit	Results
2.	Diameter	Mt.	68
3.	Stack Temperature	- Mt.	1.6
4.	Ambient Temperature	°C	60
5.	Velocity	°C	29
6.	Volumetric Flow Rate	m/sec.	6.1
7.	Moisture	Nm³/hr,	387.41.76
8.	Stack Attached to	%	4.1
-		-	Bag house

Reading Results Norms Ref	erence Melhod
Particulate Method	IS 11255 (Part 1):1985

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Report No:-GC1/V/LAB/EM-G0121/19-SP/19-20/ November-00/0342

Date: 13/11/2020

ANALYSIS REPORT

Client Def	cille	(For the Month of N			
Name M/s. SHREE RAIPUR CEMENT PLANT		Sample Details			
Nume	MIS. SHRE	E RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/SSP/ST2	
Address	A Unit of	M/s.Shree Cement Ltd), Village -	Location	Cement Mill	
		Dist:Baloda Bazar-Bhatapara, nattisgarh-492001	Date of Sampling	03/11/2020	
Sampling Done By Date of Analysis Date of Completion Time of Sampling		GCI REPRESENTATIVE	Date of Sample Received	07/11/2020	
		07/11/2020	Sampling Method	Isokinetic Sampling, IS:11255, PARI-1	
		13/11/2020	Location Co-ordinates	21°36'11" N 82°02'29" E	
turne of 2d	mpling	02: 45 PM	Stack Shape at Top	Round	

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results
1.	Stack Height	Mt.	and the second
2.	Diameter		42
3.	Stack Temperature	MI.	2.8
1	sidek temperature	°C	97
4,	Ambient Temperature	°C	33
5.	Velocity	m/sec.	
6.	Volumetric Flow Rate		6.3
7.	Moisture	Nm³/hr.	112522.22
8.	the second se	%	3.7
0.	Stack Attached to		Baa House

Sr. No.	Parameters	Vnit	CEMS Reading	Results	Norms	Reference Melhod
1.	Particulate Matter	mg/Nm ³	18.53	19.85	30	IS 11255 (Part 1):1985 RA 2014

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Report No:-GCI/V/LAB/EM-G0121/19-SF/19-20/ November -00/0342

Dote: 13/11/2020

R.		ANALY	SIS REPORT	0000.10/11/2020
Client Del			of November- 2020) Sample Details	
Name	M/s. SHRE	E RAIPUR CEMENT PLANT	Sample Code	
A Unit o		M/s.Shree Cement Ltd)	Location	GCI/V/20/K1/SSP /ST9
Radiess	Village -Khapradih, Dist: Balada Bazar-		Raw mill & Kiln Line-2	
	Bhatapara, Raipur, Chattisaarh, 192001		Date of Sampling	04/11/2020
Sampling Done By GCI REPRESENTATIVE		GCI REPRESENTATIVE	Date of Sample Received	
Date of the	and and a		bale of sample kecelved	07/11/2020
Date of Analysis		07/11/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1,2,3
			Location Co-ordinates	21°36'07" N
		04:20 PM	Stack Shape at Top	82°02'29" E Round

STACK MONITORING ANALYSIS RESULTS

No.	Parameters	Unit	Results
1.	Stack Height		×C3002
2.	Diameter	Mt.	175
3.	Stack Temperature	Mt.	5.6
4.	Ambient Temperature		89
5.	Velocity	°C	30
	Type of fuel used	m/sec.	8.6
7	Volumetric Flow Rate		Coal/PC
8.	Moisture	Nm ³ /hr.	500563.07
	Stack Attached to	%	4.0
	order Anderied to	-	RABH

Sr. No.		Unit	CEMS Reading	Results	Norms	Reference Method
L	Particulate Matter	mg/Nm ³	11.38	12.45	30	IS 11255 (Part 1):1985 RA2014
-	Sulphur Dioxide (as SO ₂)	mg/Nm ³	0	0	100	IS 11255 (Part 2):1985 RA2014
3.	Oxides of Nitrogen (as NO ₂)	mg/Nm³	428.66	465.55	600	IS 11255 (Part 7):2005 RA2017



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ November -00/0342

Date: 13/11/2020

ANALYSIS REPORT

Client Det	alls		of November- 2020) Sample Details		
Name M/s. SHREE RAIPUR CEMENT PLANT		Sample Code	COLUMNO		
	A Unit of	M/s.Shree Cement Ltd),	Location	GCI/V/20/K1/SSP/ST8 Clinker Cooler Line-2	
Address	Village – Khapradih, Dist:Baloda Bazar- Bhatapara, Raipur, Chattisgarh-492001		Date of Sampling	05/11/2020	
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	07/11/2020	
Date of An		07/11/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1,2,3 21"36'06" N	
Date of Co		13/11/2020	Location Co-ordinates		
Time of Sa	mpling	09:45 AM	Stack Shape at Top	82°02'32" E Round	
the l		STACK MONITORI	NG ANALYSIS RESULTS	forthe constant to	

Sr. No.	Parameters	Unit	Results
1.	Stack Height		
2.	Diameter	Mt.	60
3.	Stack Temperature	Mt	4.3
the second se	STOCK TEMperature	°C	119
4.	Ambient Temperature	°C	
5.	Velocity	m/sec.	28
6.	Volumetric Flow Rate		5.8
7.	Moisture	Nm³/hr.	230635.58
		*%	3.2
8.	Stack Attached to		ESP

Sr. No.	Parameters	Unit	Opacity Meter Reading	Results	Norms	Reference Method
1,	Particulate Matter	mg/Nm ³	14.63	15.89	30	IS 11255 (Part 1):1985 RA2014

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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ November -00/0342

ANALYSIS REPORT

Client Det	alls	[For the Month of	November- 2020)			
Name M/s. SHREE RAIPUR CEMENT PLANT			Sample Details			
Nume	WI/S. SHIKE	E RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/SSP /STI		
Address	(A Unit of M/s.Shree Cement Ltd), Village Khapradih, Dist:Baloda Bazar-Bhatapara, Raipur, Chattisgarh-492001		Location	Coal Mill Line-2		
			Date of Sampling	04/11/2020		
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	07/11/2020		
Date of An		07/11/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1		
		13/11/2020	Location Co-ordinates	21°36'02" N 82°02'27" F		
		03:00 PM	Stack Shape at Top	Round		

Sr. No.	Parameters	G ANALYSIS RESULTS	Results
1.	Stack Height		
2.	Diameter	Mt.	68
3.	Stack Temperature	Mt.	1.6
	sidek iemperature	°C	60
4.	Ambient Temperature	°C	29
5.	Velocity	m/sec.	
6.	Volumetric Flow Rate		6.1
7.	Moisture	Nm3/hr.	38714.23
		%	3.4
8.	Stack Attached to	-	Bag House

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
1_{i}	Particulate Matter	mg/Nm ³	17.47	18.72	30	IS 11255 (Part 1):1985 RA 2014



Date: 13/11/2020

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- Sample will be retained till one month from the date of sampling.

R & D



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ November -00/0342

Date: 13/11/2020

ANALYSIS REPORT

<u>8</u>		(For the Month	of November- 2020)		
Client Det			Sample Details		
Name	M/s. SHREE	RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/SSP/ST10	
	A Unit of I	M/s.Shree Cement Ltd),	Location	CPP 25 MW	
Address	Address Village –Khapradih, Dist:Baloda Bazar- Bhatapara, Raipur, Chattisgarh-492001 Sampling Done By GCI REPRESENTATIVE Date of Analysis 07/11/2020		Date of Sampling	05/11/2020	
Sampling			Date of Sample Received		
Date of An			Sompling Method	Isokinetic Sampling, IS:11255, PART-1,2,3	
			Location Co-ordinates	21°36'10" N 82°02'29" E	
		11:30 AM	Stack Shape at Top	Round	

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results
1.	Stack Height	Mt.	00.0
2.	Diameter		92.0
3.	Stack Temperature	Mt.	3.67
4.	Ambient Temperature		100
5.	Velocity	°C	30
6.	Type of fuel used	m/sec.	5.6
7	Volumetric Flow Rate		Coal
8.	Moisture	Nm³/hr.	170405.51
9.		%	2.8
У.	Slack Attached to	-	ESP

\$r. No.		Unit	Opacity Motor Reading	Results	Norms	Reference Method
1.	Particulate Matter	mg/Nm³	33.73	36.15	50	IS 11255 (Part 1): 1985 RA 2014
2.	Sulphur Dioxide (as SO ₂)	mg/Nm³	168.25	180.56	600	IS 11255 (Part2): 1985 RA 2014
3.	Oxides of Nitrogen (as NO ₂)	mg/Nm³	216.40	230.68	300	IS 11255 (Part 7): 2005 RA 2014
4.	Mercury (as Hg)	mg/Nm ³	-	0.004	0.03	LATS/80/2013-14 CPCB

Authorized Signatory

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- Sample will be retained fill one month from the date of sampling.

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(ISO 9001, 14001 & OHSAS 18001 Certified Organisation)

Report No:-GCI/V/LA8/EM-G0123/17-37/19-20/December -00/0400

Date: 02/01/2021

ANALYSIS REPORT

		(For the Month of I	December- 2020)		
Client Details			Sample Details		
Name	M/S. SHREE RAIPUR CEMENT PLANT		Sample Code	GC1/V/20/K1/SSP/ST1	
	(A Unit of A	A/s.Shree Cement Ltd), Village	Location	Row mill & Kiln Line-1	
Address	-Khapradih, Dist; Baloda Bazar-Bhatapara, Raipur, Challisgarh-492001		Date of Sampling	24/12/2020	
Sampling Done By Date of Analysis Date of Completion		GCI REPRESENTATIVE	Date of Sample Received	29/12/2020	
		29/12/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1,2,3	
		02/01/2021	Location Co-ordinates	21°36'10" N 82°02'29" E	
Time of Sampling 02:15 PM		Stack Shape ai Top	Round		

STACK MONITORING ANALYSIS RESULTS

Şr. No.	Parameters	Unit	Results
1.	Stack Height	Mt.	150
2.	Diameter	Mt	5.0
3.	Stack Temperature	°C	98
4.	Ambient Temperature	°C	24
5.	Velocity	m/sec.	6.06
6.	Type of fuel used	×	Coal/PC
7.	Volumetric Flow Rate	Nm³/hr.	344208.93
8.	Moisture	%	4.1
9.	Stack Attached to	-	RABH

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
1.	Particulate Matter	mg/Nm ³	9.88	10.49	30	IS 11255 (Part 1):1985 RA2014
2.	Sulphur Dioxide (as SO ₂)	mg/Nm ³	0	0	100	IS 11255 (Part 2):1985 RA2014
3.	Oxides of Nitrogen (as NO ₂)	mg/Nm ³	382.6	410.15	600	IS 11255 (Part 7):2005 RA2017

Authorized Signatory

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Report No:-GCI/V/LAB/EM-G0121/19-3P/19-20/Decomber -00/0400

Date: 02/01/2021

ANALYSIS REPORT

	10 A	(For the Month of D	ecember- 2020)		
Client Details			Sample Details		
Name		RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/SSP/ST5	
	(A Unit of /	M/s.Shree Cement Ltd), Village -	Location	Clinker Cooler Line-1	
Address	Khapradih, Disl:Baloda Bazar-Bhatapara, Raipur, Chattisgarh-492001		Date of Sampling	24/12/2020	
Sampling Done By Date of Analysis Date of Completion		GCI REPRESENTATIVE	Date of Sample Received	29/12/2020	
		29/12/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1	
		02/01/2021	Location Co-ordinates	21°36'11" N 82°02'31" E	
Time of Sampling		03:30 PM	Stack Shape at Top	Round	

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	
1.0	Stack Height	Mt.	55	
2.		Mt.	4.3	
		*C	91	
4.	Ambient Temperature	°C	22	
5.	Velocity	m/sec.	6.04	
6,		Nm³/hr	258616.29	
7.	Moisture	%	3.2	
8.			ESP	

Şr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
	Particulate Matter	mg/Nm ³	10.15	10.58	30	IS 11255 (Part 1):1985 RA 2014

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Report No:-GCI/V/LAB/EM-G0121/19-3P/19-20/December -00/0400

Date: 02/01/2021

ANALYSIS REPORT

Client Det	alis		Sample Details		
Nome	M/s. SHREE	RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/SSP/ST6	
	(A Unit of A	A/s.Shree Cement Ltd), Village -	Location	Coal mill Line-1	
Address	Khapradih, Dist:Baloda Bazar-Bhatapara, Raipur, Chattisgarh-492001		Date of Sampling	24/12/2020	
Sampling Done By Date of Analysis Date of Completion		GCI REPRESENTATIVE	Date of Sample Received	29/12/2020	
		29/12/2020	Sampling Method0	Isokinetic Sampling, IS:11255, PART-1	
		02/01/2021	Location Co-ordinates	21°36'05" N 82°02'26" E	
Time of Sampling 10:15 AM		10:15 AM	Stack Shape at Top	Round	

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results 68	
1.	Stack Height	Mt.		
2,	Diameter	Mt.	1.6	
3.	Stack Temperature	°C	65	
4.	Ambient Temperature	°C	26	
5.	Velocity	m/sec.	6.05	
6.	Volumetric Flow Rate	Nm³/hr.	37855.80	
7.	Molsture	%	4.0	
8.	Stack Attached to		Bag house	

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Melhod
1.	Particulate Matter	mg/Nm ³	17.54	18.43	30	IS 11255 (Part 1):1985 RA 2014



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Report No:-GCI/V/LAB/EM-G0121/19-\$P/19-20/December-00/0400

Date: 02/01/2021

ANALYSIS REPORT

		(For the Month of D	ecember- 2020)		
Client Det	alls		Sample Details		
Name		RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/SSP/ST2	
		M/s.Shree Cement Ltd), Village -	Location	Cement Mill	
Address	Khapradih, Dist: Baloda Bazar-Bhatapara, Raipur, Chattisgarh-492001		Date of Sampling	24/12/2020	
Sampling Done By Date of Analysis Date of Completion		GCI REPRESENTATIVE	Date of Sample Received	29/12/2020	
		29/12/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1	
		02/01/2021	Location Co-ordinates	21°36'11" N 82°02'29" E	
Time of Sampling		09:45 AM	Stack Shape at Top	Round	

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results
1.	Stack Height	Mt.	42
2.	Diameter	Mt.	2.8
3.	Stack Temperature	°C	92
4.	Ambient Temperature	°C	27
5.	Velocity	m/sec.	6.31
6,	Volumetric Flow Rate	Nm³/hr.	114244.68
7.	Moisture	%	3.5
8.	Stack Attached to		Bag House

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
	Particulate Matter	mg/Nm ³	18.27	17.81	30	IS 11255 (Part 1):1985 RA 2014



Analysis is subject to the condition in Which the Sample is received at our Laboratory. Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/December -00/0400

Date: 02/01/2021

Authorized Signatory

ANALYSIS REPORT

Client Details			of December- 2020) Sample Details		
Name		E RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/SSP /ST9	
	(A Unit of	M/s.Shree Cement Ltd),	Location	Raw mill & Kiln Line-2	
Address	Village – Khapradih, Dist: Baloda Bazar- Bhatapara, Raipur, Chattisgarh-492001		Date of Sampling	23/12/2020	
Sampling	Done By	GCI REPRESENTATIVE	Date of Sample Received	28/12/2020	
Date of Ar	nalysis	28/12/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1,2,3	
Date of Completion 02/01/2021			Location Co-ordinates	21°36'07" N 82°02'29" E	
Time of Sa	mpling	02:30 PM	Stack Shape at Top	Round	

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Vnit	Results
1.	Stack Height	Mt.	175
2.	Diameter	Mt.	5,6
3.	Stack Temperature	°C	120
4.	Ambient Temperature	℃	28
5.	Velocity	m/sec.	6,42
6.	Type of fuel used	-	Coal/PC
7.	Volumetric Flow Rate	Nm ³ /hr.	344193.55
8.	Moisture	%	3.7
9.	Stack Attached to		RABH

Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
Ъ	Particulate Matter	mg/Nm ³	13.23	12.22	30	IS 11255 (Part 1):1985 RA2014
2.	Sulphur Dioxide (as SO ₂)	mg/Nm ³	0	0	100	IS 11255 (Part 2):1985 RA2014
3.	Oxides of Nitrogen (as NO ₂)	mg/Nm ³	455.92	470.34	600	IS 11255 (Part 7):2005 RA2017

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Report No:-GCI/V/LAB/EM-G0121/19-SF/19-20/December -00/0400

Date: 02/01/2021

ANALYSIS REPORT

Sample Details		
Sample Code	GCI/V/20/K1/SSP/ST8	
Location	Clinker Cooler Line-2	
Date of Sampling	23/12/2020	
	28/12/2020	
Sampling Method	Isokinetic Sampling, IS:11255, PART-1.2.3 21°36'06" N 82°02'32" F	
Location Co-ordinates		
Stack Shape at Top	Round	
	Location Date of Sampling Date of Sample Received Sampling Method	

Sr. No.	Parameters	Unit	Results
1.	Stack Height	Mt.	10
2.	Diameter	Mt.	4.3
3.	Stack Temperature	°C	
4.	Ambient Temperature	°C	63
5.	Velocity	m/sec.	22
6.	Volumetric Flow Rate	Nm³/hr.	5.13
7.	Moisture	%	the second se
8.	Stack Attached to		3.3
			ESP

Sr. No,	I Difference and a sec	Unit	Opacity Meter Reading	Results	Norms	Reference Method
۲	Particulate Matter	mg/Nm ³	10.34	11.27	30	IS 11255 (Part 1):1985 RA2014



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Report No:-GCt/V/LAB/EM-G0121/19-SP/19-20/December -00/0400

Date: 02/01/2021

ANALYSIS REPORT

_		(For the Month of	December- 2020)		
Client Details			Sample Details		
Name	M/s. SHREE	RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/SSP /ST1	
		M/s.Shree Cement Ltd), Village	Location	Coal Mill Line-2	
Address	-Khapradih, Dist:Batoda Bazar-Bhatapara, Raipur, Chattisgarh-492001		Date of Sampling	23/12/2020	
Sampling	Sampling Done By GCI REPRESENTATIVE		Date of Sample Received	28/12/2020	
Date of Ar	nalysis	28/12/2020	Sampling Method	Isokinetic Sampling, IS:11255, PART-1	
Date of Completion 02/01/202		02/01/2021	Location Co-ordinates	21°36'02" N 82°02'27" E	
Time of Sampling 03:45 PM		Stack Shape at Top	Round		

STACK MONITORING ANALYSIS RESULTS

Sr. No,	Parameters	Unit	Results
1.	Stack Height	Mt.	68
2.	Diameter .	Mt.	1.6
3.	Stack Temperature	°C	65
4.	Ambient Temperature	00	26
5.	Velocity	m/sec.	5.97
6.	Volumetric Flow Rate	Nm3/hr.	37328,68
7.	Moisture	%	3.2
8.	Stack Attached to		Bag House

-Sr. No.	Parameters	Unit	CEMS Reading	Results	Norms	Reference Method
l.	Particulate Matter	mg/Nm ³	17.21	17.06	30	IS 11255 (Part 1):1985 RA 2014



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/December -00/0400

Date: 02/01/2021

ANALYSIS REPORT

Client Det	alls		Sample Details			
Name	Name M/s. SHREE RAIPUR CEMENT PLANT		Sample Code	GC1/V/20/K1/SSP/ST10		
		A/s.Shree Cement Ltd),	Location	CPP 25 MW		
Address Village -Khapro		apradih, Disit Baloda Bazar- 1, Rolpur, Chattisgarh-492001	Date of Sampling	23/12/2020		
Sampling	Sampling Done By GCI REPRESENTATIVE		Date of Sample Received	28/12/2020		
Date of A	nalysis	28/12/2020	Sampling Method	tsokinetic Sampling, IS:11255, PART-1,2,3		
Date of Completion 02/01/2021 Time of Sampling 09:30 AM		tocation Co-ordinates	21°36'10" N 82°02'29" E			
		Stack Shape at Top	Round			

STACK MONITORING ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results
1.	Stack Height	Mt.	92.0
2.	Diameter	Mt.	3.67
3.	Stack Temperature	℃	116
4.	Ambient Temperature	°C	27
5.	Velocity	m/sec.	5.39
6.	Type of fuel used		Coal
7.	Volumetric Flow Rate	Nm³/hc	157269.17
8.	Moisture	%	3.2
9.	Stack Attached to	· · · · · · · · · · · · · · · · · · ·	ESP

Sr. No.	Parameters	Unit	Opacity Meter Reading	Results	Norms	Reference Method
ţ.	Particulate Matter	mg/Nm³	37.16	39.35	50	IS 11255 (Part 1): 1985 RA 2014
2.	Sulphur Dioxide (as SO2)	mg/Nm ³	260.65	285.47	600	IS 11255 (Part2): 1985 RA 2014
3.	Oxides of Nitrogen (as NO ₂)	mg/Nm³	143.15	152.56	300	IS 11255 (Part 7): 2005 RA 2014
4.	Mercury (as Hg)	mg/Nm³	245	0.005	0.03	LATS/80/2013-14 CPCB



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TEST REPORT

STACK MONITO	RING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chhattisgarb-493332.	Test Report No: CES/La Dispatch No.: 185 Issue Date : 20.01.2021	b/20-21//85
Method of test : IS: 11255	Sampling Details	
Time of Sampling : 04:30 PM	Sample Monitored	: Stack
Location of stack : - 21°36'10" N.82°02'29" E	Date of Receipt	: 15.01.2021
Sample Collected By:- Gath Laboratories	Period of testing	: 15.01.2021 to 20.01.2021
Page no. 1 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample	1	12.01.2021
2	Source of collection : Stack attached t	0	RABH
3	Location of Stack		Raw Mill & Kiln Line-1
4	Ambient Temp. (°C)		19
5	Type of fuel		Coal/PC
6	Flue gas Temp. (°C)	1.5.10	80
7	Exit Velocity of the flue gases (m/sec)	5.49
8	Total Heights of stack (m)		150
9	Diameter of stack in (m)		5.00
10	Flue gas flow rate (Nm ³ /hr)		327733.67
11	Parameters with Protocol of Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particulate matter (PM) - Part-1 - 1985 RA 2014 30		10.45	
Sulphur Di-Oxide (SO2) - Part-2 - 1985 RA 2014 100		0.00	
Oxide of I	ide of Nitrogen (NO2) - Part-7 - 2005 RA 2017 600		490.16

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42, 48, Doorsenchar Nagar, Near Savoy Complex. E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510

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TEST REPORT

STACK MONITO	RING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village - Khapradih, Dist.: Baloda Bazar-Bhatapara, Chhattisgarh-493332.	Test Report No: CES/L: Dispatch No.: Issue Date : 20.01.2021	ab/20-21//85 [~]
Method of test : 15: 11255	Sampling Details	
Time of Sampling : 11:15 AM	Sample Monitored	: Stack
Location of stack : - 21°36'11" N 82°02'31" E	Date of Receipt	: 15.01.2021
Sample Collected By:- Gatth Laboratories	Period of testing	: 15.01.2021 to 20.01.2021
Page no. 2 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample		14.01.2021
2	Source of collection : Stack attached to		ESP
3	Location of Stack		Clinker Cooler Line-1
4	Ambient Temp. (°C)		25
5	Type of fuel		Coal/PC
6	Flue gas Temp. (°C)	1	95
7	Exit Velocity of the flue gases (m/sec)		6.30
8	Total Heights of stack (m)		55
9	Diameter of stack in (m)		4.30
10	Flue gas flow rate (Nm3/hr)		266816.73
11	Parameters with Protocol of Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particula	ate matter (PM) -Part -1-1985 RA 2014	30	12.67

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TEST REPORT

STACK MONITO	DRING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chhattisgarh-493332.	Test Report No: CES/L Dispatch No.: Issue Date : 20.01.2021	
Method of test : IS: 11255	Sampling Details	
Time of Sampling: 02:50 PM	Sample Monitored	: Stack
Location of stack : - 21°36'05" N.82°02'26" E	Date of Receipt	
Sample Collected By:- Gatih Laboratories		: 15.01.2021
Page no. 3 of 10	Period of testing	: 15.01.2021 to 20.01.2021
	Atmospheric condition	: Clear

S. No.	Stack Details		
1	Date of Sample		Stack
2		and the second	14.01.2021
3	Source of collection : Stack attack	hed to	Bag house
4	Ambient Temp. (°C)		Coal Mill Line-1
5	Type of fuel		22
6		Flue gas Temp. (°C) Exit Velocity of the flue gases (m/sec)	
7			
8	Total Heights of stack (m)		
9	Diameter of stack in (m)		68
10	Flue gas flow rate (Nm ³ /hr)		1.60
1	Parameters with Protocol of	1 11 1	33608.68
Particulate	Method	Limit (mg/Nm³)	Pollutant Concentration (mg/Nm³)
a at the unate	e matter (PM) -Part-1-1985 RA 2014	30	19.02

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TEST REPORT

STACK MONIT	ORING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village -Khapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No.: CES/L Dispatch No.: Issue Date : 20.01.2021	ab/20-21/ <i>/85</i>
Method of test : IS: 11255	Sampling Details	
Time of Sampling : 10:00 AM	Sample Monitored	: Stack
Location of stack : - 21°36'11" N.82°02'29" E	Date of Receipt	: 15.01.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 15.01.2021 to 20.01.2021
Page no. 4 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample	Date of Sample	
2	Source of collection : Stack attached	ito	14.01.2021
3	Location of Stack		Bag house
4	Ambient Temp. (°C)	10.000	Cement Mill
5	Type of fuel		27
6	Flue gas Temp. (°C)		Coal/PC
7	Exit Velocity of the flue gases (m/sec)		77
8	Total Heights of stack (m)		6.37
9	Diameter of stack in (m)		42
10	Flue gas flow rate (Nm3/hr)		2.80
11	Parameters with Protocol of	Limit	120273.75
	Method	(mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particula	te matter (PM) -Part -1-1985 RA 2014	30	17.35
		and the second se	

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TEST REPORT

STACK MONITO	RING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village - Khapradib, Dist.: Baloda Bazar-Bhatapara, Chhattisgarh-493332.	Test Report No: CES/L Dispatch No.: Issue Date : 20.01.2021	ab/20-21/ /85
Method of test : IS: 11255	Sampling Details	
Time of Sampling : 11:30 AM	Sample Monitored	: Stack
Location of stack : - 21°36'10" N,82°02'29" E	Date of Receipt	: 15.01.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 15.01.2021 to 20.01.2021
Page no. 5 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample		14.01.2021
2	Source of collection : Stack attache	d to	RABH
3	Location of Stack		The same set
4	Ambient Temp. (°C)		Raw Mill & Kiln Line-2
5	Type of fuel		18
6	Flue gas Temp. (°C)		Coal/PC
7	Exit Velocity of the flue gases (m/s	20)	88
8	Total Heights of stack (m)	ecj	5.74
9	Diameter of stack in (m)		175
10	Flue gas flow rate (Nm ³ /hr)		5.60
11		Acres 1 March	335015.53
	Parameters with Protocol of Method	Limit (mg/Nm³)	Pollutant Concentration (mg/Nm³)
Particulat	e matter (PM) -Part -1-1985 RA 2014	30	12.74
	i-Oxide (SO2)- Part-2 - 1985 RA 2014	100	<4.00
Oxide of N	itrogen (NO ₂) - Part-7, 2005 RA 2017	600	512.34

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TEST REPORT

STACK MONIT	FORING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No: CES/L Dispatch No.: Issue Date : 20.01.2021	ab/20-21//8.5
Method of test : IS: 11255	Sampling Details	the second se
Time of Sampling : 03:15 PM	Sample Monitored	: Stack
Location of stack : - 21°36'06" N,82°02'32" E	Date of Receipt	: 15.01.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 15.01.2021 to 20.01.2021
Page no. 6 of 10	Atmospheric condition	: Clear

S. No.	Stack Details	1	Stack
1	Date of Sample		
2	Source of collection : Stack attached	l to	14.01.2021
3	Location of Stack	10	ESP
4	Ambient Temp. (°C)		Clinker Cooler Line-2
5	Type of fuel		29
6	Flue gas Temp. (°C)		Coal/PC
7	Exit Velocity of the flue gases (m/se		
8	Total Heights of stack (m)		5.79
9	Diameter of stack in (m)		60
10	Flue gas flow rate (Nm ³ /hr)		4.30
11	Parameters with Protocol of	_	259348.,48
	Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particula	te matter (PM) -Part -1-1985 RA 2014	30	8.49

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TEST REPORT

STACK MONIT	ORING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village -Khapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No: CES/La Dispatch No.: Issue Date : 20.01.2021	њ/20-21/ / 8 <i>5</i> °
Method of test : IS: 11255	Sampling Details	
Time of Sampling: 10:15 AM	Sample Monitored	: Stack
Location of stack : - 21°36'02" N 82°02'27" E	Date of Receipt	: 16.01.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 16.01.2021 to 21.01.2021
Page no, 7 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample	1	15.01.2021
2	Source of collection : Stack attached	to	Bag house
3	Location of Stack		Coal Mill Line-2
4	Ambient Temp. (°C)		23
5	Type of fuel	-000	Coal/PC
6	Flue gas Temp. (°C)		56
7	Exit Velocity of the flue gases (m/sec)		5.43
8	Total Heights of stack (m)		68
9	Diameter of stack in (m)		1.6
10	Flue gas flow rate (Nm ³ /hr)		34881.00
11	Parameters with Protocol of Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particula	ate matter (PM) -Part -1-1985 RA 2014	30	16.55

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TEST REPORT

STACK MONITO	RING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chhattisgarh-493332.	Test Report No: CES/L Dispatch No.: Issue Date : 20.01.2021	ab/20-21/ /85
Method of test : IS: 11255	Sampling Details	· · · · · · · · · · · · · · · · · · ·
Time of Sampling: 12:30 PM	Sample Monitored	: Stack
Location of stack : - 21°36'10" N 82°02'29" E	Date of Receipt	: 17.01.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 17.01.2021 to 21.01.2021
Page no. 8 of 10	Atmospheric condition	: Clear

S. No,	Stack Details	Stack Details	
1	Date of Sample		Stack 16.01.2021
2	Source of collection : Stack attached	Ito	
3	Location of Stack		ESP
4	Ambient Temp. (°C)		CPP 25 MW
5	Type of fuel		20
6			Coal
		Flue gas Temp. (°C)	
7		Exit Velocity of the flue gases (m/sec)	
8	Total Heights of stack (m)	Total Heights of stack (m)	
9	Diameter of stack in (m)	1.11	92 3.67
10	Flue gas flow rate (Nm ³ /hr)	1000	148489.58
11	Parameters with Protocol of Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particulat	Particulate matter (PM) - Part -1-1985 RA 2014 50		37.51
Sulphur Di-Oxide (SO2)- Part-2 - 1985 RA 2014 600		280.36	
Oxide of N	Oxide of Nitrogen (NO2) - Part-7 2005 RA 2017 300		85.42

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TEST REPORT

STACK MONITO	DRING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village - Khapradih, Dist.: Baloda Bazar-Bhatapara, Chattisgarh-493332.	Test Report No: CES/L Dispatch No.: Issue Date : 24.02.2021	
Method of test : IS: 11255	Sampling Details	
Time of Sampling 11:00 AM	Sample Monitored	1.0
Location of stack : - 21°36'10" N.82°02'29" E		: Stack
Sample Collected By:- Gatih Laboratories	Date of Receipt	: 22.02.2021
Page no. 1 of 10	Period of testing	: 22.02.2021 to 24.02.2021
- Bo no. T of 40	Atmospheric condition	: Clear

S. No.	Stack Details	T	Stack
1	Date of Sample		
2	Source of collection : Stack a	Alb - 5 -	19.02.2021
3	Location of Stack	illached to	RABH
4	Ambient Temp. (°C)		Raw Mill & Kiln Line-1
5	Type of fuel		27
6	Flue gas Temp. (°C)		Coal/PC
7			80
8	Exit Velocity of the flue gase	s (m/sec)	5.67
9	Total Heights of stack (m)		150
10	Diameter of stack in (m)		5.00
11	Flue gas flow rate (Nm ³ /hr)		338479.04
	Parameters with Protocol of Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
articulate matter (PM) -Part -1-1985 RA 2014		and the second se	
Mpnur Di-Oxide (SO2)- Part-2 - 1985 RA 2014 100 Oxide of Nitrogen (NO2) - Part 7, 2005 DA 2014 100		100	12.14
		600	<4.00
		000	415.24

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TEST REPORT

STACK MONIT(DRING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chhattisgarh-493332,	Test Report No: CES/L Dispatch No.: Issue Date : 24.02.2021	ab/20-21/ /&G
Method of test : IS: 11255	Sampling Details	
Time of Sampling : 03:00 PM	Sample Monitored	: Stack
Location of stack : - 21°36'11" N 82°02'31" E	Date of Receipt	:20.02.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 20.02.2021 to 24.02.2021
Page no. 2 of 10	Atmospheric condition	: Clear

S. No,	Stack Details		
1	Date of Sample	Contraction of the	Stack
2	Source of collection : Stack attac	L. 1.	18.02.2021
3	Location of Stack	nea to	ESP
4			Clinker Cooler Line-1
5	Ambient Temp. (°C)	Charles .	30
6	Type of fuel	12000	Coal/PC
0		Flue gas Temp. (°C)	
1	Exit Velocity of the flue gases (m	Exit Velocity of the flue gases (m/sec)	
8	Total Heights of stack (m)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	5.82
9	Diameter of stack in (m)		
10	Flue gas flow rate (Nm3/hr)	a la faire de la composition de la comp	4.30
11	Parameters with Protocol of Limit		242533.49
Danette I. i	Method	(mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
raruculate m	atter (PM) -Part -1-1985 RA 2014	30	10.78

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TEST REPORT

STACK MONITO	RING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist: Baloda Bazar-Bhatapara, Chhattisgarh-493332.	Test Report No: CES/La Dispatch No.: Issue Date : 24.02.2021	b/20-21/ <i>[86</i>
Method of test : IS: 11255	Sampling Details	
Time of Sampling: 09:30 AM	Sample Monitored	: Stack
Location of stack : - 21°36'05" N,82°02'26" E	Date of Receipt	: 22.02.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 22.02.2021to 24.02.2021
Page no. 3 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample	To Date	19.02.2021
2	Source of collection : Stack attached	i to	Bag house
3	Lucation of Stack		Coal Mill Line-1
4	Ambient Temp. (°C)	1884	25
5	Type of fuel		Coal/PC
6	Flue gas Temp. (°C)		60
7	Exit Velocity of the flue gases (m/sec)		4.87
8	Total Heights of stack (m)		68
9	Diameter of stack in (m)		1.60
10	Flue gas flow rate (Nm3/hr)		30929.90
11+.	Parameters with Protocol of Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particula	te matter (PM) -Part -1-1985 RA 2014	30	16.41

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TEST REPORT

STACK MONIT	ORING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village -Khapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No: CES/La Dispatch No.: Issue Date : 24.02.2021	њ/20-21/ /8G
Method of test : IS: 11255	Sampling Details	
Time of Sampling : 09:45 AM	Sample Monitored	: Stack
Location of stack : - 21°36'11" N,82°02'29" E	Date of Receipt	: 20.02.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 20.02.2021 to 24.02.2021
Page no. 4 of 10	Atmospheric condition	: Clear

S. No.	Stack Details	Stack Details	
1	Date of Sample	10	18.02.2021
2	Source of collection : Stack attack	hed to	Bag house
3	Location of Stack		Cement Mill
4	Ambient Temp. (°C)		30
5	Type of fuel		Coal/PC
6	Flue gas Temp. (°C)		75
7	Exit Velocity of the flue gases (m	Exit Velocity of the flue gases (m/sec)	
8	Total Heights of stack (m)	-	42
9	Diameter of stack in (m)		2.80
10	Flue gas flow rate (Nm3/hr)		103874.17
11	Parameters with Protocol of Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particulate	matter (PM) -Part -1-1985 RA 2014	30	19.54

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42. 48. Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510

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TEST REPORT

STACK MONITO	RING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chhattisgarh-493332.	Test Report No: CES/L: Dispatch No.: Issue Date : 24.02.2021	ab/20-21/ /86
Method of test : IS: 11255	Sampling Details	
Time of Sampling : 02:15 PM	Sample Monitored	: Stack
Location of stack : - 21°36'10" N,82°02'29" E	Date of Receipt	: 19.02.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 19.02.2021 to 24.02.2021
Page no. 5 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample		17.02.2021
2	Source of collection : Stack attach	Source of collection : Stack attached to	
3	Location of Stack	-	RABH Raw Mill &Kiln Line-2
4	Ambient Temp. (°C)	1.12	24
5	Type of fuel	1000	Coal/PC
6	Flue gas Temp. (°C)		
7	Exit Velocity of the flue gases (m/	Exit Velocity of the flue gases (m/sec)	
8	Total Heights of stack (m)	-	5.09 175
9	Diameter of stack in (m)		5.60
10	Flue gas flow rate (Nm3/hr)		308175.98
11	Parameters with Protocol of Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particulate matter (PM) -Part -1-1985 RA 2014 30		18.32	
Sulphur D	Sulphur Di-Oxide (SO2)- Part-2 - 1985 RA 2014 100		<4.00
Oxide of N	Oxide of Nitrogen (NO ₂) - Part-7, 2005 RA 2017 600		501.29

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TEST REPORT

STACK MONIT	ORING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), VIllageKhapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No: CES/L Dispatch No.: Issue Date : 24.02.2021	ab/20-21/ /86
Method of test : IS: 11255	Sampling Details	
Time of Sampling : 04:30 PM	Sample Monitored	: Stack
Location of stack : - 21°36'06" N.82°02'32" E	Date of Receipt	: 19.02.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 19.02.2021 to 24.02.2021
Page no. 6 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample		17.02.2021
2	Source of collection : Stack attac	ched to	ESP
3	Location of Stack		
4	Ambient Temp. (°C)		Clinker Cooler Line-2
5	Type of fuel		31 Cool (DC
6	Flue gas Temp. (°C)	-	Coal/PC
7	Exit Velocity of the flue gases (m/sec)		85
8	Total Heights of stack (m)	(/ Sec)	6.32
9	Diameter of stack in (m)		60
10	Flue gas flow rate (Nm ³ /hr)		4.30
11	Parameters with Protocol of		275180.99
	Method	Limit (mg/Nm ³)	Pollutant Concentration
Particulate	matter (PM) -Part -1-1985 RA 2014		(mg/Nm ³)
	114461 (1 11) * ATC 1*1905 KA 2014	30	10.15

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TEST REPORT

STACK MONIT	ORING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village ~Khapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No: CES/L Dispatch No.: Issue Date : 24.02.2021	ab/20-21/ /86
Method of test : IS: 11255	Sampling Details	
Time of Sampling : 11:30 AM	Sample Monitored	: Stack
Location of stack : - 21°36'02" N 82°02'27" E	Date of Receipt	: 20.02.2021
Sample Collected By:- Gatth Laboratories	Period of testing	:20.02.2021 to 24.02.2021
Page no. 7 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample		18.02.2021
2	Source of collection : Stack attac	ched to	
3	Location of Stack		Bag house Coal Mill Line-2
4	Ambient Temp. (°C)		28
5	Type of fuel		Coal/PC
6	Flue gas Temp. (°C)		60
7	Exit Velocity of the flue gases (n	i/sec)	4.52
8	Total Heights of stack (m)		68
9	Diameter of stack in (m)		1.6
10	Flue gas flow rate (Nm ³ /hr)		
11	Parameters with Protocol of Method	Limit (mg/Nm ³)	28686.61 Pollutant Concentration (mg/Nm³)
Particulate	matter (PM) -Part -1-1985 RA 2014	30	18.25

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TEST REPORT

STACK MONITO	RING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chhattisgarh-493332.	Test Report No: CES/L Dispatch No.: Issue Date : 24.02.2021	ab/20-21/ <i>186</i>
Method of test : IS: 11255	Sampling Details	
Time of Sampling : 12:30 PM	Sample Monitored	: Stack
Location of stack : - 21°36'10" N 82°02'29" E	Date of Receipt	: 22.02.2021
Sample Collected By:- Gatih Laboratories	Period of testing	: 22.02.2021to 24.02.2021
Page no. 8 of 10	Atmospheric condition	: Clear

S. No.	Stack Details		Stack
1	Date of Sample		19.02.2021
2	Source of collection : Stack att	Source of collection : Stack attached to	
3	Location of Stack		ESP CPP 25 MW
4	Ambient Temp. (°C)		
5	Type of fuel		30
6	Flue gas Temp. (°C)		Coal
7	Exit Velocity of the flue gases {	the first of	136
8	Total Heights of stack (m)	m/sec)	5.67
9	Diameter of stack in (m)		92
10			3.67
	Flue gas flow rate (Nm ³ /hr)		157349.07
11	Parameters with Protocol of Method	Limit (mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
Particulate matter (PM) -Part -1-1985 RA 2014 50		50	40.57
Sulphur Di-(Sulphur Di-Oxide (SO2)- Part-2 - 1985 RA 2014 600		350.49
Oxide of Niti	Oxide of Nitrogen (NO ₂) - Part-7, 2005 RA 2017 300		145.63

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Cert No.: TC-6872

TEST REPORT

STACK MONI	TORING SURVEY REPO	IPT
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village - Khapradih, Dist.: Baloda Bazar-Bhatapara, Chattisgarh-493332.	ULR No.: TC6872211 Dispatch No.: 2-64 Issue Date : 29.03.202 Client Ref: Nil Date : Nil	500000036
Method of test : 15: 11255	Samalian Dec. 1	
Wind speed & Wind Direction - 10 Km/h & S, RH - 50%	Sampling Details Sample Monitored	: Stack
Sample Collected Gatih Laboratories	Data 50 11	
Page no. Lof 10	Date of Sampling	: 20.03.2021
	Date of Receipt	: 23.03.2021
No. of Sampling Locations -10	Period of testing	: 23.03.2021 to 29.03.2021
Atmospheric condition: Clear	No. of samples	:36/1

S. No,	Stack Details			
1	Date of Sample			
2	Source of collection : Stat	ale and the second	20.03.2021	
3	Location of Stack	ck attached to	RABH	
4	Ambient Temp. (°C)		Raw Mill & Kiln Line-1	
5	Type of fuel		27	
6	Flue gas Temp. (°C)		Coal/PC	
7			80	
8	Total Hainty of the flue ga	Exit Velocity of the flue gases (m/sec)		
9	Total Heights of stack (m)		stack (m)	150
10	Diameter of stack in (m)		5.00	
11	Flue gas flow rate (Nm ³ /h Parameters with Protocol of	1	338479.04	
	Method	Limit (mg/Nm³)	Pollutant Concentration	
Particul:	ate matter (PM) - Part-1 - 1985 RA 2014	30	(mg/Nm ³)	
Sutbur	upnur Di-Oxide (SO2) - Part-2 - 1995 PA 2014		11.40	
Oxide of	Nitrogen (NO ₂) - Part-7 - 2005 RA 2017	100	<4.00	
		600	510.16	

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Note

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NEELAM UPADHYAY TECHNICAL MANAGEN

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Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN: U74999MP2020PTC052747

Cert No.: TC-6872

TEST REPORT

Name & Addama Stack MONITO	DRING SURVEY REPOR	r
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chattisgarh-493332.	ULR No.: TC687221 Dispatch No.: 266 Issue Date : 29.03.202 Client Ref: Nil Date : Nil	500000036
Method of test #IS: 11255	S	
Wind speed & Wind Direction - 10 Km/h & S, RH - 50%	Sampling Details	
	Sample Monitored	: Stack
Sample Collected Gatih Laboratories	D	
Page no. 2 of 10	Date of Sampling	: 20.03.2021
	Date of Receipt	: 23.03.2021
No. of Sampling Locations -10	Period of testing	
Atmospheric condition: Clear	No. of samples	: 23.03.2021 to 29.03.2021 : 36/2

S. No.	Stack Details		
1	Date of Sample		
2	Source of collection : Stack at	the day of the	20.03.2021
3	Location of Stack	tuached to	RABH
4	Ambient Temp. (°C)		Raw Mill & Kiln Line-2
5	Type of fuel		24
6	Flue gas Temp. (°C)		Coal/PC
7	Exit Velocity of the flue games	Exit Velocity of the flue gases (m/sec)	
8	Total Heights of stack (m)	(m/sec)	5.09
9	Diameter of stack in (m)		175
10	Flue gas flow rate (Nm ³ /hr)		5.60
11	Parameters with Protocol	T	308175.98
	of Method	Limit	Pollutant Concentration
^{articulate} m	Infur Di Ouide (700) - Part -1-1985 RA 2014 30		(mg/Nm ³)
adbitat DI-O	april Di-Oxide [SO/] - Part-2 - 100c h + 20c		19.34
xide of Nitro	ogen (NO ₂) - Part-7, 2005 RA 2014	100	<4.00
	2005 RA 2017	600	508.33

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NEELAM UPADHYA

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Cert No.: TC-6872

TEST REPORT

Name & Address a Sale - H	ORING SURVEY REPOR	'r	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chattisgarh-493332.	ULR No.: TC687221 Dispatch No.: 266 Issue Date : 29.03.20 Client Ref: Nil Date : Nil	500000036	
Method of test :1S: 11255	Sampling Details		
Wind speed & Wind Direction 10 th			
And a second	Sample Monitored	: Stack	
Sample Collected Gatih Laboratories			
Page no. 4 of 10	Date of Sampling	: 20.03.2021	
	Date of Receipt	: 23.03.2021	
No. of Sampling Locations -10	Period of testing	the second s	
Atmospheric condition: Clear		: 23.03.2021 to 29.03.2021	
	No. of samples	: 36/4	

S. No.	Stack Details		1
1	Date of Sample		Stack
2	Source of collection : Stack atta	1.1	20.03.2021
3	Location of Stack	ached to	Bag house
4	Ambient Temp. (vC)	_	Cement Mill
5	Type of fuel		30
б	Flue gas Temp. (°C)		
7	Exit Velocity of the flue pases (Exit Velocity of the flue gases (m/sec)	
3	Total Heights of stack (m)	Total Heights of stack (m)	
	Diameter of stack in (m)		42
0	Flue gas flow rate (Nm ³ /hr)		2.80
1	Parameters with Protocol of	Parameters with Protocol of	
Particulater	memod	(mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
	natter (PM) -Part -1-1985 RA 2014	30	20.33

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#The Results relate only to the sample tested/ sampled

NEELAM UPADHYA / TECHNICAL MANAGER

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Notes





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TEST REPORT

STACK MONITO	ORING SURVEY REPOR	۰ <u>۳</u>
To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chattisgarh-493332.	ULR No.: TC687221 Dispatch No.: 2 66 Issue Date : 29.03.20 Client Ref: Nil Date : Nil	500000036
Method of test IS: 11255		
Wind speed & Wind Direction 10 1	Sampling Details	
	Sample Monitored	: Stack
Sample Collected Gatih Laboratories	the second second	
Page no. 5 of 10	Date of Sampling	: 20.03.2021
No. of Sampling Locations -10	Date of Receipt	: 23.03.2021
	Period of testing	
Atmospheric condition: Clear	No. of samples	: 23.03.2021 to 29.03.2021 : 36/5

S. No.	Stack Detalls		
1	Date of Sample		
2	Source of collection : Stack atta		Stack 20.03.2021
3	Location of Stack	ched to	ESP
4	Ambient Temp. (°C)		Clinker Cooler Line-1
5	Type of fuel		30
6	Flue gas Temp. (°C)		Coal/PC
7	Exit Velocity of the flue games (Exit Velocity of the flue gases (m/sec)	
8	Total Heights of stack (m)	Total Heights of stack (m/sec)	
9	Diameter of stack in (m)		55
0	Flue gas flow rate (Nm ³ /hr)		4.30
.1	Parameters with Protocol of	Tree	242533.49
articulate m	THE CHOO	Limlt (mg/Nm³)	Pollutant Concentration
and a second sec	atter (PM) -Part -1-1985 RA 2014	30	(mg/Nm³)
			11.75

For CES Analytical and Research Services (I) Pvt. Ltd

#The Results relate only to the sample tested/ sampled

Noto-

Authorized Signatory

NEELAM UPADHYA7 TECHNICAL MANAGLIN

42, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510, Mobile : 9425009319





Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

Cert No.: TC-6872

TEST REPORT

Name & Address of the Customer	ORING SURVEY REPOR	- the second s	
M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chattisgarh-493332.	ULR No.: TC687221 Dispatch No.: 2 6 4 Issue Date : 29.03.20 Client Ref: Nil Date : Nil	500000036	
Method of test: 15: 11255			
Wind speed & Wind Direction - 10 Km/h & S, RH- 50%	Sampling Details		
	Sample Monitored	: Stack	
Sample Collected Gatih Laboratories		· Otaen	
Page no. 6 of 10	Date of Sampling	: 20.03.2021	
No. of Sampling Locations -10	Date of Receipt	: 23.03.2021	
Atmospheric en du	Period of testing		
Atmospheric condition: Clear	No. of samples	: 23.03.2021 to 29.03.2021	
	fried	:36/6	

S. No.	Stack Detalis	_	
1	Date of Sample	Date of Sample	
2	Source of collection : Stark att	arthout the	20.03.2021
3	OF Stack	actieu to	ESP
4 5	Ambient Temp. (°C)		Clinker Cooler Line-2
5	Type of fuel		31
2	Flue gas Temp. (°C)	Flue gas Temp. (°C)	
	Exit Velocity of the flue gases (Exit Velocity of the flue gases (m/sec) Total Heights of stack (m)	
	rotal neights of stack (m)		
0	Diameter of stack in (m)		60
1	Flue gas flow rate (Nm ³ /hr) 4.3	4.30	
	Parameters with Protocol of Method	Limit	275180.99
articulate matter (PM) -Part -1-1985 RA 2014		(mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
	(a si) -1 art -1-1985 RA 2014	30	10.30

For CES Analytical and Research Services (I) Pvt. Ltd Authorized Signatory

#The Results relate only to the sample tested/ sample

NEELAM UPADHYA TECHNICAL MANAGE

42. Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510, Mobile : 9425009319

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Note-





Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

Cart No.: TC-6872

TEST REPORT

Name & Address of the Customer	ORING SURVEY REPOR	di.
16, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chattisgarh-493332.	ULR No.: TC687221 Dispatch No.: 2. CC Issue Date : 29.03.20 Client Ref: Nil Date : Nil	500000036
Method of test : IS: 11255		
Wind speed & Wind Direction - 10 Km/h & S, RH - 50%	Sampling Details	
	Sample Monitored	: Stack
Sample Gatih Laboratories		- JUGER
Page no. 7 of 10	Date of Sampling	: 20.03.2021
No. of Sampling Locations -10	Date of Receipt	: 23.03.2021
Atmospheric conditions -10	Period of testing	
Atmospheric condition: Clear	No. of samples	: 23.03.2021 to 29.03.2021
		:36/7

S. No.	Stack Details	_	()) () () () () () () () () (
1	Date of Sample	Date of Sample	
2	Source of collection : Stack attac		20.03.2021
3	Location of Stack	ined to	Bag house
4	Ambient Temp. (°C)		Coal Mill Line-I
5	Type of fuel		25
6	Flue gas Temp. (°C)	Flue gas Temp. (°C)	
7	Exit Velocity of the flue mean (m	Exit Velocity of the flue gases (m/sec)	
1	rotat neights of stack (m)	Total Heights of stack (m)	
	Diameter of stack in (m)		68
0	Flue gas flow rate (Nm3/ha)		1.60
1	Parameters with Protocol of Limit		30929.90
articulate			Pollutant Concentration (mg/Nm ³)
	matter (PM) -Part -1-1985 RA 2014	30	
			17.43

For CES Analytical and Research Services (I) Pvt. Ltd

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NEELAM UPADHYAY TECHNICAL MANAGE

42. Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510, Mobile : 9425009319

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Note:





Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN: U74999MP2020PTC052747

Cert No.: TC-6872

TEST REPORT

Name & Address of the Customer	ORING SURVEY REPOR	φ.
To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chattisgarh-493332.	ULR No.: TC687221 Dispatch No.: 2 66 Issue Date : 29.03.20 Client Ref: Nil Date : Nil	500000036
Method of test : IS: 11255		In the second second
Wind speed & Wind Direction - 10 Km/h & S, RH - 50%	Sampling Details	
	Sample Monitored	: Stack
Sample Collected Gatih Laboratories		
Page no. 8 of 10	Date of Sampling	: 20.03.2021
No. of Sampling Locations -10	Date of Receipt	: 23.03.2021
Atmospheric condition: Clear	Period of testing	
Clear	No. of samples	: 23.03.2021 to 29.03.2021 : 36/8

S. No.	Stack Details		
1	Date of Sample	Date of Sample	
2	Source of collection : Stack atta		Stack 20.03.2021
3	Location of Stack	ached to	Bag house
4	Ambient Temp. (°C)		Coal Mill Line-2
5	Type of fuel		28
6 7	Flue gas Temp. (°C)	Flue gas Temp. (°C)	
4	Exit Velocity of the flue Pages (Exit Velocity of the flue gases (m/sec) Total Heights of stack (m)	
)	regar neights of stack (m)		
0	Diameter of stack in (m)		68
1	Flue gas flow rate (Nm ³ /hr)		1.6
	Parameters with Protocol of Method	Limit	28686.61 Patha
Particulate n	natter (PM) -Part -1-1985 RA 2014	(mg/Nm ³)	Pollutant Concentration (mg/Nm ³)
	(1-1) Part -1-1985 RA 2014	30	17.21

For CES Analytical and Research Services (I) Pvt. Ltd

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Authopized Signatory

NEELAM UPADHYAY TECHNICAL MANAGE

42, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510, Mobile : 9425009319

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Note-





Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

Cert No.: TC-6872

TEST REPORT

STACK MONITO	RING SURVEY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist.: Baloda Bazar-Bhatapara, Chattisgarh-493332.	ULR No.: TC6B72215 Dispatch No.: 266 Issue Date : 29.03.202 Client Ref: Nil Date : Nil	00000036
Method of test : IS: 11255	Sampling Details	
Wind speed & Wind Direction - 10 Km/h & S, RH - 50%	S, Sample Monitored : Stack	
Sample Collected Gatih Laboratories	Date of Sampling	: 20.03.2021
Page no. 3 of 10	Date of Receipt :23.03.2021	
No. of Sampling Locations -10	Period of testing : 23.03.2021 to 29.03.20	
Atmospheric condition: Clear	No. of samples	: 36/3

S. No.	Stack Details	Stack Details	
1	Date of Sample		Stack 20.03.2021
2	Source of collection : Stack atta	ached to	ESP
3	Location of Stack		CPP 25 MW
4	Ambient Temp. (°C)		30
5	Type of fuel		Coal
6	Flue gas Temp. (°C)	Flue gas Temp. (%C)	
7	Exit Velocity of the flue gases (Exit Velocity of the flue gases (m/sec)	
8	Total Heights of stack (m)		5.67
9	Diameter of stack in (m)		3.67
10	Flue gas flow rate (Nm3/hr)		157349.07
11	Parameters with Protocol of Method	Llmit (mg/Nm³)	Pollutant Concentration (mg/Nm ³)
Particulate matter (PM) -Part -1-1985 RA 2014 50		41.57	
Sulphur Di-Oxide (SO2)- Part-2 - 1985 RA 2014 600		351.49	
Oxide of Nitrogen (NO ₂) - Part-7, 2005 RA 2017 300		147.61	
	g) LATS/80/2013-14-CPCB	0.03	<0.01

For CES Analytical and Research Serfices () Pvt. Ltd

#The Results relate only to the sample tested/ sampled

SHOP orized signatory 24.01

NEELAM UPADHYAY TECHNICAL MANAGE

42, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510, Mobile : 9425009319

Email: cesanalytical@gmail.com, creativelab.bpl@gmail.com, Websearch : www.creativeenviroservices.com

Annexure - 5

CONTINUOUS AMBIENT AIR OUALITY MONITORING REPORT (A Unit of Shree Cement Itd) **Shree Raipur Cement Plant**

		CONTRACTOR AND							
Location	Parameters	Norms	Unit	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
	PM10	100		53.38	51.64	59.00	53.39	55.06	48.57
AAQMS 1 (Mines boundary towards	PM _{2.5}	60		29.74	28.81	29.05	29.11	27.06	26.71
village Bharuwadih)	s0 ₂	80		12.12	11.93	12.16	12.13	12.12	11.80
	NO ₂	80		11.18	11.02	11.22	11.20	11.19	7.77
	PM10	100				37.49	31.05	48.64	57.53
AAQMS 2 (Mines boundary towards	PM _{2.5}	60		Not in Operati	Not in Operation due to UPS	16.71	11.95	24.68	28.08
villageSemradih)	sO ₂	80		break	breakdown	9.74	9.46	11.14	10,44
	NO ₂	80	10/m3			6.49	6.31	7.43	6.96
	PM ₁₀	100		53.70	51.77	53.60	60.35	49.87	53.66
AAQMS 3 (Plant Boundary towards	PM _{2.5}	60		26.34	31.63	31.00	30.79	22.27	27.00
South Diection)	50 ₂	80		12.79	12.47	12.19	12.31	12.38	13.06
	NO2	80		9.59	9.35	9.14	9.23	9.28	13.60
	PM ₁₀	100		56.00	53.52	60.95	59.41	51.47	51.58
AAQMS 4 (Plant Boundary fowards	PM _{2.5}	60		24.91	30.44	30.78	30.75	24,53	24.79
village Khapradih)	s0 ₂	80		5.06	5.28	5.34	5.71	5.77	6.07
	NO2	80		1.62	2.00	7.70	12.26	12 41	N1 C1

12.14

12.41

12.26



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(Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986) (No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation) Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

ANALYSIS REPORT

Daie: 13/11/2020

Client Details		(For the Month of No	Sample Details	
Manua	M/s. SHREE	RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/AA1
Name	(A Unit of S	hree Cement Ltd)	Location	Nr. Bharuadih
Address	Village -Kh	apradih, Tohsil – Simga,	Quantity	N/A
Address	Dist: Balod	o Bazar-Bhalapara,	Instrument	RDS. FPS, Bladder
	Chhattisgo	rn-493332	Sampling duration	24 Hrs.
Sampling Done By Analysis Started Date Analysis Completion Date		Mr. Ashvin & Dhruv	Date of Sampling	05/11/2020
		07/11/2020	Date of Sample Receiving	13/11/2020
Analysis Comp	letion Date	13/11/2020	Sampling Method	IS 5182: Part - 5: 1975

AMBIENT AIR QUALITY MONITORING RESULTS

Sr. No	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1.	Particulate Matter (PM10)	µg/m ³	59.17	100	Crowline M. H. H.
2.	Particulate Matter (PM2.5)	µg/m ³	29.52	60	Grovimetric Method
3.	Sulphur dioxide (SO2)	µg/m ³	8.26	80	Gravimetric Method
4.			0.20	80	Improved West and Geake
4.	Nitrogen Dioxide (NO2)	µg/m ³	10.59	80	Modified Jacob and Hoehheiser
5.	Carbon Monoxide CO	mg/m ³	0.3	2.0	Non Dispersive infra-red spectroscope
6.	Ozone as O ₃	hð\w ₃	<1.0	100	Chemical Method (By U.V
7.	Lead as Pb	µg/m ³	<0.05	1.0	Visible Spectrophotometer)
8.	Nickel as Ni	ng/m ³	<1.0		By AAS method
9.	Arsenic as As	ng/m ³	<5.0	20	By AAS method
	Ammonia as NH3	139AILL-	10.0	6.0	By AAS method
10.		µg/m³	<10	400	Indophenol Blue Method (By U.V Visible
11,	Benzene, C6H6	µg/m ³	<0.5	5.0	Spectrophotometer)
12.	Benzo (a) Pyrene			0.0	Gas Chromatography
	nark: Resulls are within limit as o	ng/m ³	<0.05	1.0	Solvent extraction followed by GC

within limit as per NAAQS Guideline,

Authorized Signatory

Analysis is subject to the condition in Which the Sample is received at our Laboratory.

- Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.



Integrated HSEQR Consulting Engineers, Scientists & Trainers (Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

Date: 13/11/2020 ANALYSIS REPORT (For the Month of November-2020) **Client Detalls** Sample Details M/s. SHREE RAIPUR CEMENT PLANT Sample Code Name (A Unit of Shree Cement Ltd) GCI/V/20/K1/AA2 Location Nr. Semaradih Village – Khapradih, Tehsil – Simga, Address Quantity Dist: Baloda Bazar-Bhatapara, N/A Instrument Chhattisgarh-493332 RDS, FPS, Bladder Sampling duration 24 Hrs. Sampling Done By Date of Sampling Mr. Ashvin & Dhruv 04/11/2020 Date of Sample Analysis Started Date 07/11/2020 13/11/2020 Analysis Completion Date Receiving 13/11/2020 Sampling Method IS 5182: Part - 5: 1975

AMBIENT AIR QUALITY MONITORING RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1.	Particulate Matter (PM10)	µg/m ³	55.8		
2.	Particulate Matter (PM2.5)	µg/m ³	27.6	100	Gravimetric Method
3.	Sulphur dioxide (SO2)	µg/m ³	-	60	Gravimetric Method
		pg/m	9.8	80	Improved West and Geake
4.	Nifrogen Dioxide (NO2) Carbon Monoxide CO	µg/m³	12.36	80	Modified Jacob and Hoethhoiser
5.	Ozone as O ₃	mg/m³	0.45	2.0	Non Dispersive infra-red spectroscope
5.	Lead as Pb	hð\w ₃	<1.0	100	Chemical Method (By IJ V
3.	the second s	µg/m ³	<0.05	1.0	Visible Spectrophotometer)
	Nickel as NI	ng/m ³	<1.0	20	By AAS method
•	Arsenic as As	ng/m ³	<5.0		By AAS method
21	Ammonia as NH3		4.4	6.0	By AAS method
0.	e de la composition	µg/m³	<10	400	Indophenol Blue Method (By U.V Visible
1.	Benzene . CoHo	°m/gų	<0.5		Spectrophotometer)
2.	Benzo (a) Pyrene	Malute.	-0.5	5.0	Gas Chromatography
	emaric Results are within limit as	ng/m ³	<0.05	1.0	Solvent extraction followed by GC

mill as per NAAQS Guideline.

Authorized Signator

Analysis is subject to the condition in Which the Sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.

R&D

CORP. OFFICE & Green Empire (Anupushpam), Above AxI3 Bank, Nr. Yash Complex, Goin Main Road, Vadodata - 390 021 (Gujarat), INDIA. Tel.: +91 - 265 - 2371269 Cell: +91 93285 83835 Email: info@greencircleinc.com Website: www.greencircleinc.com



Integrated HSEQR Consulting Engineers, Scientists & Trainers (Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)

(No. Q - 1508 / 32 / 2007 - CPW) (ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

ANALYSIS REPORT Date: 13/11/2020 (For the Month of November-2020) **Client** Details M/s. SHREE RAIPUR CEMENT PLANT Sample Details Name (A Unit of Shree Cement Ltd) Sample Code GCI/V/20/K1/AA1 Location Village – Khapradih, Tehsil – Simga, Dist: Baloda Nr. RMS Bazar-Bhatapara, Chhattisgarh-493332 Address Quantity N/A Instrument RDS, FPS, Bladder Sampling duration Sampling Done By 24 Hrs. Mr. Ashvin & Dhruv Date of Sampling 05/11/2020 Analysis Started Date Date of Sample 07/11/2020 Analysis Completion Date Receiving 07/11/2020 13/11/2020 Sompling Method IS 5182: Part - 5: 1975

AMBIENT AIR QUALITY MONITORING RESULTS

Sr. No	Parameters	Unit	Rosulfs	National Ambient Air Quality Standards (NAAQS)	Reference Method
13.	Particulate Matter (PMIO)	µg/m ³	1 50	amended 2009	
14.	Particulate Matter (PMast	Pg/m	59.4	100	Gravimetric Method
15.	Sulphur dioxide (SO-)		34.7	60	Gravimetric Method
16.	Nitrogen Dioxide (NO2)	µg/m ³	11.87	80	Improved West
17.	Carbon Monoxide CO	µg/m³	10.15	80	Improved West and Geake
18.	Ozone as O3	mg/m³	0.55	2,0	Modified Jacob and Hoehheiser Non Dispersive infra-red spectroscope
19.	Lead as Pb	hð\w ₃	<1.0	100 n	Chemical Method (By U.V Visible Spectrophotometer)
20.	Nickel as Ni		<0.05	1.0	By AAS method
21,	Arsenic as As	ng/m ³	<1.0	20	By AAS method
22.	Ammonia as NH3	ng/m ³	<5.0	6.0	By AAS method
3,		µg/m³	<10	400	Indophenol Blue Method (Bully)
	Benzene, C&H6	µg/m ³	<0.5		visible spectrophotometeri
Rem	Benzo (a) Pyrene	A STATE	10		Gas Chromalography
	ark: Results are within limit as pe	NAAQS G	uideline.	1.0	Solvent extraction followed by GC

Authorized Signatory

Analysis is subject to the condition in Which the Sample is received at our Laboratory. Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.



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(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/Nov

Client Details		ANALYSIS R (For the Month of Nove	EPORT	Date: 13/11/2020
Name	M/s. SHREE RA	AIPUR CEMENT PLANT	Sample Details Sample Code	GCIWING
Village -Khapra		radih Tehsil - Simaa	Location Quantity	GCI/V/20/K1/AA4 Nr. Kharpradih N/A
Address Dist: Baloda Bazar-Bhatapara, Chhattisgarh-493332			Instrument Sampling duration	RDS, FPS, Bladder 24 Hrs.
Sampling Done By Analysis Started Date Analysis Completion Date		Mr. Ashvin & Dhruv	Date of Sampling	04/11/2020
		07/11/2020	Date of Sample Receiving	13/11/2020
		13/11/2020	Sampling Method	IS 5182: Part - 5: 1975

AMBIENT AIR QUALITY MONITORING RESULTS

Sr. No.		Unif	Results	National Ambient Air Quality Standards (NAAQS)	Reference Method
1,	Particulate Matter (PMto)	µg/m ³	53.26	amended 2009	1
2.	Particulate Matter (PM2.5)	µg/m ³	25.88	100	Gravimetric Method
3.	Sulphur dioxide (SO2)	µg/m ³		60	Gravimetric Method
4.	Nitrogen Dioxide (NO2)	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNER OWNER OF THE OWNER OWNE OWNER OWNE	6.04	80	Improved West and Geoke
5.	Carbon Monoxide CO	µg/m³	7.47	80	Modified Jacob and Hoehheiser
	Ozone as O3	mg/m³	0.5	2.0	Non Dispersive infra-red spectroscope
6.		pg/m ³	<1.0	100	Chemical Method
7.	Lead as Pb	tree to 2		100	(By U.V Visible Spectrophotometer)
3.	Nickel as Ni	µg/m ³	<0.05	1.0	By AAS method
2.	Arsenic as As	ng/m ³	<1.0	20	By AAS method
	Ammonia as NH3	ng/m ³	<5.0	6,0	By AAS method
10.	A STATISTICS OF AILS	µg/m³	<10	100	
n.	Benzene , CoHo			400	Indophenol Blue Method (By U.V Visible Spectrophotometer)
-	Benzo (a) Pyrene	µg/m³	<0.5	5.0	Gas Chromater
Re	emark: Results are within limit as	ng/m ³	<0.05	1.0	Gas Chromatography Solvent extraction followed by GC

Authorized Signatory

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CES ANALYTICAL AND RESEARCH SERVICES (1) PVT. LTD.

Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) and ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, CIN : U74999MP2020PTC052747

TF	ST REPORT	
	AIR QUALITY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd). Address:-Village -Khapradih, Tehsil - Simga, Dist: Baloda Bazar-Bhatapara, Chhattisgarh- 493332,	Test Report No:: CES Dispatch No.: 340 Issue Date : 23.03.2021 Client Ref: Nil Date : Nil	
Method of test : 15: 5182 Part – 5: 1975	Sampling Details	
Test required: As per work order	Sample Monitored	: Ambient Air Quality
Sample Collected By:- Gatih Laboratories	Date of Sampling	: 16.03.2021 to 17.03.2021
Instrument to be used: Eco Tech FDS	Date of Receipt	: 19.03.2021
Page 1 of 2	Period of testing	: 19.03.2021 to 23.03.2021
No. of Sampling Locations -04	Duration of sampling	: 24 hrs

	AMBIENT	AIR QUALITY RESULTS		
S. No.	Parameters	NAAQ Standards (Industrial area)	Near Bharuadlh	Near Semaradih
1	Wind direction		W	w
2	Wind speed km/h		9	9
3	Relative Humidity %	1	47	47
4	Ambient Temp. (°C)		31	31
	Parameters		Pollutant Co	
1	Particulate matter (size less than 10µm) or PM ₁₀ -Part-23-2006 (µg/m ³)	100	56.52	69.45
2	Particulate matter (size less than 2.5µm) or PM _{2.5} (µg/m ³)	60	27.76	26.74
3	Sulphur Di-Oxide (SO ₂)- Part-2(µg/m ³)	80	14.13	12.17
4	Oxide of Nitrogen (NO2)- Part-4(µg/m3)	80	13.20	8.97
5	Carbon monoxide (CO) (mg/m ³)	2	<1.00	<1.00
6	Ozone as (O ₃) (µg/m ³)	180	<5.00	<5.00
7	Benzene as (C6H6) (µg/m ³)	05	< 0.05	<0.05
8	Ammonia as (NH3) (µg/m ³)	400	<5.00	<5.00
9	Lead as (Pb) (µg/m ³)	01	<0.05	<0.05
10	Arsenic as (As) (ng/m ³)	06	<0.05	<0.05
11	Nickel as (Ni) (ng/m ³)	20	<0.05	<0.05
12	Benzo(a)Pyrene as (BaP) (ng/m ³)	01	<0.01	<0.01

NAAQ- National Ambient Air Quality Standards CPCB Notification 18th Nov. 2009

For CES Analytical and Research Service

Authori

#The Results relate only to the sample tested/ sampled

42, 48, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510

Email: cesanalytical@gmail.com, creativelab.bpl@gmail.com, Websearch : www.creativeenviroservices.com

Note: 1.

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Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) and ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, CIN : U74999MP2020PTC052747

ŤE	ST REPORT	
	AIR QUALITY REPORT	
Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd). Address:-Village -Khapradih, Tehsil - Simga, Dist: Baloda Bazar-Bhatapara, Chhattisgarh- 493332.	Test Report No:: CES Dispatch No.: 3ro - Issue Date : 23.03.2021 Client Ref: Nil Date : Nil	
Method of test : IS: 5182 Part – 5: 1975	Sampling Details	
Test required: As per work order	Sample Monitored	: Ambient Air Quality
Sample Collected By:- Gatih Laboratories	Date of Sampling	: 16.03.2021 to 17.03.2021
Instrument to be used: Eco Tech FDS	Date of Receipt	: 19.03.2021
Page 2 of 2	Period of testing	: 19.03.2021 to 23.03.2021
No. of Sampling Locations -04	Duration of sampling	: 24 hrs

	AMBIENT	AIR QUALITY RESULTS		
S. No.	Parameters	NAAQ Standards (Industrial area)	Near RMS	Near Kharpradih
1	Wind direction		W	w
2	Wind speed km/h		9	9
3	Relative Humidity %		47	47
4	Ambient Temp. (°C)		- 31	31
	Parameters			Concentration
1	Particulate matter (size less than 10µm) or PM ₁₀ -Part-23-2006 (µg/m ³)	100	58.21	69.47
2	Particulate matter (size less than $2.5\mu m$) or PM _{2.5} (µg/m ³)	60	26.39	- 30.57
3	Sulphur Di-Oxide (SO ₂)- Part-2(µg/m ³)	80	15.43	8.14
4	Oxide of Nitrogen (NO2)- Part-4(µg/m3)	80	18.11	14.22
5	Carbon monoxide (CO) (mg/m ³)	2	1.72	<1.00
6	Ozone as (O3) (µg/m3)	180	<5.00	<5.00
7	Benzene as (C6H6) (µg/m ³)	05	< 0.05	<0.05
8	Ammonia as (NH3) (µg/m ³)	400	<5.00	<5.00
9	Lead as (Pb) (µg/m³)	01	< 0.05	<0.05
10	Arsenic as (As) (ng/m ³)	06	< 0.05	<0.05
11	Nickel as (Ni) (ng/m ³)	20	< 0.05	<0.05
12	Benzo(a)Pyrene as (BaP) (ng/m3)	01	< 0.01	<0.01

NAAQ- National Ambient Air Quality Standards CPCB Notification 18th Nov. 2009

For CES Analytical and Research Services (1) Pvt. Ltd

Authori

mator

#The Results relate only to the sample tested/ sampled

42, 48, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510

Email: cesanalytical@gmail.com, creativelab.bpl@gmail.com, Websearch : www.creativeenviroservices.com

Note: 1. 2.

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<u>Annexure – 6</u>

Shree Raipur Cement Plant (A Unit of Shree Cement Ltd) Installed Appropriate Air Pollution Control Devices

S. No.	Name of Sources	Pollution Control Measures
1.	Coal Unloading	Covered Unloading point
2.	Limestone Unloading	Covered unloading and water spray arrangement at crusher
3.	Material Transfer Points	Cover shed & Dust Collectors
4.	Fly Ash Storage	Silo
5.	Gypsum Storage	Cover shed
6.	Petcoke / Coal Storage	Cover shed
7.	Limestone Storage	Cover shed
8.	Clinker Storage	Silo
9.	Conveyor Belt	Covered
10.	Raw Mill & Kiln-I	RABH
11.	Clinker Cooler-I	ESP
12.	Coal Mill-I	Bag House
13.	Raw Mill & Kiln-II	RABH
14.	Clinker Cooler-II	ESP
15.	Coal Mill-II	Bag House
13.	Cement Mill	Bag House
14.	All Silo	Dust Collector for silo venting

Annexure-7

Compliance of CREP Recommendations

SN.	CREP CONDITION	COMPLIANCE
1	Cement plant, which are not complying with notified standards, shall do the following to meet the standards: • Augmentation of existing Air Pollution Control	We are complying with the standards prescribed by MoEF & CC and CECB.
	 Devices - by July 2003. Replacement of existing Air Pollution Control Devices - by July 2004. 	
2	Cement plants located in critically polluted or urban areas(including 5 Km distance outside urban boundary) will meet 100 mg/Nm3 limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter 50 mg/Nm3.	Our plant is not located within critically polluted or urban area. And the emissions from our stacks are well within the statutory norms.
3	The new cement kiln to be accorded NOC/ Environmental Clearance w.e.f 1/4/03 will meet the limit of 50 mg/Nm3 for particulate matter emission.	Air pollution control equipment are meeting the particulate matter emission level <30mg/Nm3.
4	CPCB will evolve load-based standards by December 2003.	Noted.
5	CPCB and NCBM will evolve SO2 and NOx emission standards by June -2004.	Standards notified by MoEF & CC.
6	The cement industries will control fugitive emission from all raw material and product storage and transfer points by December 2003. However, the National Task Force will decide the feasibility for the control of fugitive emission from limestone and coal storage areas. The NTF	Unit has installed Appropriate Air Pollution Control (APC) measures at all the dust generating points including fugitive dust from all vulnerable sources to comply with prescribed standards.
	shall submit its recommendations within months.	The raw material i.e. limestone is transported to plant with help of covered conveyor belts and end product Cement & Clinker being transported in trucks covered with tarpaulin.
		Covered storages/silos have been provided for clinker, Fly ash, Gypsum and cement storage.
		Circular stock piles have been provided for covered storage coal & pet coke.
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum cock as fuel in Cement Kiln by July 2003.	Noted.

0		
8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operation/section for installation of continuous monitoring equipment. The industry will install the continuous monitoring system (CMS) BY December 2003.	Continuous emission monitoring system have been installed at all major stacks.
9	Tripping in Kiln ESP to be minimized by July 2003 as per the recommendation on NTF.	Bag house have been provided in Kiln stack, hence there is no possibility of tripping in case of bag house.
10	Industries will submit the target date to enhance the utilization of waste material by April 2003.	We are co-processing hazardous waste material generated from other industries in our cement kilns. And fly ash generated from our captive power plant is completely utilized in cement manufacturing process within our own cement plant.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	For utilization/co-processing of Hazardous wastes in Cement kiln. We have obtained the authorization for various types of hazardous waste from CECB and Co- processing of hazardous & non-hazardous waste such as ETP sludge, Organic residue, Process residue from pharmaceutical industries including RDF/MSW in cement kiln.
12	Cement industries will carry out feasible study and submit target dates to CPCB co-generation of power by July-2003.	Provided waste heat recovery system of capacity 55 MW for power generation from the waste heat gases of kiln & cooler.

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ANNEXURE-8



6.

GREEN CIRCLE, INC.

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(No. Q - 1508 / 32 / 2007 - CPW) Report No:-GE/V/LAB/EM-G012 1/19-SP/19-20/November-00/0342

ANALYSIS REPORT

Dute: 13/11/2020

Client deto Name		AIPUR CEMENT PLANT	Sample Details	
Address	(A Unit of M/	Shree Cement Ltd),	Sample Code	GCI/V/20/C3/SSP/ DW1
		aradih, Dist: Baloda ara, Raipur,	Batch/Location	Bore well Water Near
	Chamsgarh-4	92001	Date of Sampling	CCR Building (B1)
Sampling D	one By	GCI Representative		05/11/2020
	arted Date	07/11/2020	Date of Sample Received	07/11/2020
Analysis Completion Date		13/11/2020	Sampling Method	and the second se
1.0		CROWN	a submit wented	APHA 1060

GROUND WATER ANALYSIS RESULTS

Sł.	Parameters	14.45	AITALI	SIS RESULIS	
No.	8	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
2	Color Odour	Hazen	<5	15	
3		-	Agreeable	15	APHA 2120
	Turbidity	NTU	<1	Agreeable	APHA 2150
4	Taste		Agreeable	5	APHA 2130
5	pH	-	7.2	Agreeable	APHA 2160
6	Total Hardness as CaCO3	mg/L	150	6.5-8.5	APHA 4500
7	Iron as Fe	mg/L		600	APHA 2340 C
8	Chloride as Cl	mg/L	0.06	0.3	APHA 3111 - B
9	Residual Chlorine		90	1000	APHA 4500 - CH
10	Fluoride as F	mg/L	<0.1	1	APHA 4500 - CI
11	Total Dissolved Solids	mg/L	<0.5	1.5	APHA 4500 - F D
12	Calcium	mg/L	500	2000	APHA 2540 C
13	Magnesium	mg/L	98	200	APHA 2500 C
4	Copper	mg/L	50	100	APHA 3500 -Co- B
5	Alkalinity	mg/L	<0.2	1.5	APHA 3500 -Mg-B
6	Ammonia Total	mg/L	90	600	APHA 3111 - B
7	Nitrates	mg/L	0.15	0.5	APHA 2320
the second se	Note Detected	mg/L	5.1	10	APHA 4500 - NH3
Ren	naria: All above parameters are wit			40	APHA4500 NO3 B

Remarks: All above parameters are within limit as per IS 10500:2012 drinking water Specification.

Authorized Signatory

Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.

CORP. OFFICE & : Green Empire (Anupushpam). Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Vadodara - 390 021 (Gujarat), INDIA. Tel.: +91 - 265 - 2371269 Cell: +91 93285 83835 Email: Info@greencircleinc.com Website: www.greencircleinc.com



GREEN CIRCLE, INC.

Integrated HSEQR Consulting Engineers. Scientists & Trainers

(Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986) (No. Q - 1508 / 32 / 2007 - CPW)

Report No:-CC/V/LAB/EM-C012 719-39719-20/November-00/0342

ANALYSIS REPORT (For the Month of th

Date: 13/11/2020

Client de			Sample Details		
Name*	M/s. SHREE RAIP	UR CEMENT PLANT	Scripte Details		
Address	A Unit of M/s Sh	ree Cement Ltd),	Sample Code	GCI/V/20/C3/SSP /DW1	
	Village –Khaprad Bazar-Bhatapard Chattisgarh-4920	dih,Dist:Baloda	Batch/Location	Bore well Water Near CCR Building (B1)	
Sampling	Done Bu	1	Date of Sampling		
e-mpinig i	Done by	GCI	Date of Sample Received	05/11/2020	
Analysis S	aded Dela	Representative			
Analysis Started Date		07/11/2020		07/11/2020	
Analysis C	ompletion Date	13/11/2020	Sampling Method	Dilla terre	
9		CR0111/2020	sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr.	i didifieleis		1	RESULIS	
No	2.	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking	Reference Method
18		mg/L	ND	Water	
19	10101 CHIOHIOH	mg/L	ND	0.001	APHA 3112 - B
20	Barium	mg/L		2	APHA 3500 - B
21	Zinc	mg/L	0.05	0.7	APHA 3500 - Ba
22	Arsenic		<0,1	15	APHA 3111 - 8
23	Cadmium	mg/L	ND	0.05	APHA 3500-As
24	Aluminum	mg/L	<0.001	0.003	APHA 3111 - B
25	Selenium	mg/L	<0.01	0.2	APHA 3500 - AI - B
26	Silver	mg/L	ND	0.01	APHA 3500 - Sn
27	Lead	mg/L	ND	0.1	APHA 3500 - Ag
28	Nickle	mg/L	ND	0.01	APHA 3111 - B
29	Boron	mg/L	ND	0.02	APHA 3111 - B
30	Manganese	mg/L	<0.02	1.0	APHA 3500 - B
31	Chloramines	mg/L	<0.01	0.3	APHA 3111 - B
32	Sulphates	mg/L	ND	4	
33	Sulphide	mg/L	11.8	400	APHA 4500- CIO2 - D
34		mg/L	ND	0.05	APHA 4500 SO4 - E
5	Molybdenum	mg/L	ND	0.0.0	APHA 4500 S2
6	Phenolic Compound	mg/L	< 0.001	0.044	APHA 3500- Mo
7	E-Coli	MPN/100 ml	ND	Aller A	APHA 5530
_	Mineral Oil	mg/L	ND		APHA 9221 F
8	Anionic Detergent as MBAS	mg/L	<0,1	1.0	APHA 5520
rulli	ND: Not detected		Weil .	1.0	APHA SSADE G

All above parameters are within limit as per 1\$ 10500:2012 drinking water Specification.

Authorized Signatory

Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission, Sample will be retained till one month from the date of sampling.



Integrated HSEQR Consulting Engineers, Scientists & Trainers (Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986) (No. Q - 1508 / 32 / 2007 - CPW)

Report No: SCI/V/LAB/EM-G012T/19-SP/19-20/November-00/0342 (17025 Certified Organisation) Date: 13/11/2020

ANALYSIS REPORT (For the Month of Neuros

Client det	ails	L'or me monin or	the second se		
Name M/s. SHREE RAIPUR CEMENT PLANT			Sample Details		
	(A Unit of Shree C	EMENT PLANT	Sample Code	GCI/V/20/B4/DW2	
Address	Village -Khapradil	Tahril Cimer Dia	Batch/Location	Bore well Water	
Baloda Bazar-Bhatar 493332		apara, Chhattisgarh-	Date of Sampling	Near GPP Office	
Sampling (GCI Representative	Date of Sample	05/11/2020	
Analysis Starfed Date Analysis Completion Date		07/11/2020	Received	07/11/2020	
		13/11/2020	Sampling Method	APHA 1040	

GROUND WATER ANALYSIS RESULTS

Sr. No.	ruidmeters	Unit	Results	Permissible Limits as per IS 10500:2012 for	Reference Method
1	Color	Hazen	<5	Drinking Water	
2	Odour	Titlet		15	APHA 2120
3	Turbidity	NTU	Agreeable	Agreeable	APHA 2150
4	Taste	1410	<1	5	APHA 2130
5	pH		Agreeable	Agreeable	APHA 2160
6	Total Hardness as CaCO3	-	8.2	6.5-8.5	APHA 4500
7	Iron as Fe	mg/L	.165	600	APHA 2340 C
8	Chloride as Cl	mg/L	0.03	0.3	APHA 3111 - B
9	Residual Chlorine	mg/L	102	1000	APHA 4500 - CI-
10	Fluoride as F	mg/L	<0.5	1	APHA 4500 - CI
11	Total Dissolved Solids	mg/L	<0.5	1.5	APHA 4500 - F D
12	Calcium	mg/L	510	2000	APHA 2540 C
13	Magnesium	mg/L	89	200	APHA 3500 -Ca- 8
14	Copper	mg/L	45	100	APHA 3500 -Mg- B
5	Alkalinity	mg/L	<0.2	1.5	APHA 3111 - B
16	Ammonia Total	mg/L	115	600	APHA 2320
7	Nitrates	mg/L	ND	0.5	
	Note Detected	mg/L	5.5		APHA 4500 - NH3 APHA4500 NO3 B

Remarks: All above parameters are within limit as per IS 10500:2012 drinking water Specification.

Authorized Signatory

Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.

CORP. OFFICE & : Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Goirl Main Road, Vadodara - 390 021 (Gujarat), INDIA. Tel.: +91 - 255 - 2371269 Cell: +91 93285 83835 Email: info@greencircleinc.com Website: www.greencircleinc.com



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(Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)

(No. Q - 1508 / 32 / 2007 - CPVV)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation) Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

ANALYSIS REPORT (For the Month of November-2020)

Dale: 13/11/2020

Client details			Samela D. J. ii			
A Unit of		IREE RAIPUR CEMENT	Sample Details			
		of Shree Cement Ltd)	Sample Code	GCI/V/20/B4/DW2		
Address	Village	-Khapradih, Tehsil -				
	Simga. Dist: Baloda Bazar- Bhatapara, Chhattisgarh- 493332		Batch/Location	Bore well Water Near GPP. Office		
			Date of Sampling			
Sampling Don	e By	GCI REPRESENTATIVE	Dut de	05/11/2020		
Analysis Started Date Analysis Completion Date		07/11/2020	Date of Sample Received	07.0.1 (00000		
				07/11/2020		
		13/11/2020	Sampling Method	APHA 1060		

GROUND WATER ANALYSIS RESULTS

18 19 20 21 22	Mercury Total Chromium Barium Zinc Arsenic	mg/L mg/L mg/L mg/L	ND ND	Drinking Water 0.001	APHA 3112-B
20 21	Barium Zinc Arsenic	mg/L	ND		T Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
21	Zinc Arsenic			2	APITA 3500 - B
	Arsenic	mg/L	ND	0.7	APHA 3500 - 80
		No. of Concession, Name of	<0.1	15	
23		mg/L	ND	0.05	APHA 3111 - B
-	Cadmium	mg/L	<0.002	0.003	APHA 3500-As
24	Aluminum	mg/L	<0.1	0.2	APHA 3111 - 8
25	Selenium	mg/L	ND	0.01	APHA 3500 - AI - B
26	Silver	mg/L	ND	0,1	APHA 3500 - Sn
27	Lead	mg/L	ND	the second se	APHA 3500 - Ag
28	Nickle	mg/L	ND	0.01	APHA 3111-8
29	Boron	mg/L		0.02	APHA 3111-8
30	Manganese	mg/L	<0.1	1.0	APHA 3500 - B
31	Chloramines		<0.01	0.3	APHA 3111 - B
32	Sulphates	mg/L	ND	4	APHA 4500- CIQ2 - D
	Sulphide	mg/L	1.9	400	APHA 4500 SO4 - E
_	Molybdenum	mg/L	ND	0.05	APHA 4500 S2
-	Phenolic Compound	mg/L	ND		APHA 3500- Mo
24		mg/L	<0.001		APHA 5530
_	E-Coli	MPN/100 ml	ND	Absent	APHA 9221 F
	Mineral Oil	mg/L	ND		
	Anionic Detergent as MBAS	mg/L	<0.1	1.0	АРНА 5520 АРНА 5540 – С

All above parameters are within limit as per IS 10500:2012 drinking water Specification.



Authorized Signatory

Analysis is subject to the condition in which the sample is received of our Laboratory.

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CORP. OFFICE & : Green Empire (Anucushpam), Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Vadodara - 390 021 (Gujarat), INDIA. R & D Tel.: +91 - 205 - 2371289 Gell: +91 93285 83835 Email: info@greencircleinc.com Website: www.greencircleinc.com



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(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation) Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

ANALYSIS REPORT (For the Month of Neuro

Date: 13/11/2020

Client deta	alls	Le of the Month of			
Name M/s. SHREE RAIPUR CEMENT PLANT			Sample Details		
	(A Unit of Shree Cr	ment (td)	Sample Code	GCI/V/20/84/DW2	
Address Village – Khapradih, Balada Bazar-Bhata 493332		Tohell Cine and Dial			
		apara, Chhattisgarh-	Batch/Location	Bore well Near Main gate	
Sampling (lana Du		Date of Sampling	05/11/2020	
1.0		GCI Representative	Date of Sample Received	03/11/2020	
Analysis Started Date Analysis Completion Date		07/11/2020	- ACCOUNT OF	07/11/2020	
		13/11/2020	Sampling Method		
		AND A PARTY OF A		APHA 1060	

GROUND WATER ANALYSIS RESULTS

ar.	Descent 1		the party of the p		
No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
2	Color	Hazen	<5	15	ADULA DAGA
3	Odour		Agreeable	Agreeable	APHA 2120
4	Turbidity	NTU	<1	5	APHA 2150
5	Taste	-	Agreeable	Agreeable	APHA 2130
6	pH	-	8.1	6.5-8.5	APHA 2160
7	Total Hardness as CaCO ₃	mg/L	170	600	APHA 4500
8	Iron as Fe	mg/L	0.03	0.3	APHA 2340 C
9	Chloride as Cl	mg/L	120		APHA 3111 - B
	Residual Chlorine	mg/L	<0.5	1000	APHA 4500 - CI-
10	Fluoride as F	mg/L	<0.5	1.6	APHA 4500 - CI
11	Total Dissolved Solids	mg/L	430	1.5	APHA 4500 - F D
12	Calcium	mg/L	95	2000	APHA 2540 C
13	Magnesium	mg/L	60	200	APHA 3500 - Ca- B
14	Copper	mg/L	<0.2	100	APHA 3500 - Mg- B
15	Alkalinity	mg/L	90	1.5	APHA 3111 - B
16	Ammonia Total	mg/L	and the second se	600	APHA 2320
17	Nitrates	mg/L	ND	0.5	APHA 4500 - NH3
	Note Detected	mg/L	4.0	45	APHA4500 NO3 B

Remarks: All above parameters are within limit as per 15 10500:2012 drinking water Specification.

Authorized Signatory

- Analysis is subject to the condition in which the sample is received at our Laboratory.
- Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.



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GREEN CIRCLE, INC.

Integrated HSEQR Consulting Engineers, Scientists & Trainers

(Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)

(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001. OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342 ANALYSIS REPORT (For the Month of Novemi

Date: 13/11/2020

Client details		Last ine monit	or November-2020]			
Name M/s. SHRE		S DAIDUO OS UN	Sample Details			
		EE RAIPUR CEMENT PLANT Shree Cement Ltd)	Sample Code	GCI/V/20/B4/DW2		
	Village -	Chapradih Tehsil - Simaa	Batch/Location			
	DIST: BOIO	da Bazar-Bhatanara		Bore well Near		
F	Chnattisg	arh-493332	Date of Sampling	Main gate		
Sampling Done	By	GCI REPRESENTATIVE		05/11/2020		
Analysis Started Date Analysis Completion Date		07/11/2020	Date of Sample Received	07/11/0000		
		13/11/2020	Sampling Method	07/11/2020		
		C.R.C.	sempling memod	APHA 1060		

GROUND WATER ANALYSIS RESULTS

Sr.	Day 1	Por an al an al an				
No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water		
19	Mercury	mg/L	ND	0.001	the second se	
20	Total Chromium	mg/L	ND	2	APHA 3112 - B	
20	Barium	mg/L	ND	0.7	APHA 3500 - B	
22	Zinc	mg/L	<0.1	15	APHA 3500 - Ba	
and the second second	Arsenic	mg/L	ND	0,05	APHA 3111 - B	
23	Cadmium	mg/L	<0.002		APHA 3500-As	
24	Aluminum	mg/L	<0.1	0.003	APHA 3111 - B	
25	Selenium	mg/L	ND	0.2	APHA 3500 - AI - B	
26	Silver	mg/L		0.01	APHA 3500 - Sn	
27	Lead	mg/L	ND	0.1	APHA 3500 - Ag	
28	Nickie	mg/L	ND	0.01	APHA 3111 - B	
29	Boron		ND	0.02	APHA 3111 - B	
30	Manganese	mg/L	<0.1	1.0	APHA 3500 - 8	
31		mg/L	<0.01	0.3	APHA 3111 - B	
	Chloramines	mg/L	ND	4	APHA 4500- CID2	
32	Sulphates	mg/L	1.9	100	D	
33	Sulphide	mg/L	ND ND	400	APHA 4500 SO4 - E	
34 *	Molybdenum	mg/L		0.05	APHA 4500 S2	
35	Phenolic Compound	mg/L	ND	0,07	APHA 3500- Mo	
36	E-Coli	MPN/100	<0.001	0.002	APHA 5530	
37		ml	ND	Absent	APHA 9221 F	
38	Mineral Oil	mg/L	ND		APHA 5520	
	Anionic Detergent as MBAS	mg/L	<0.1	10	APHA 5540 - C	
********	w not delected		the second se	0.0	ALLIA SALL-C	

ID: Not detected

All above parameters are within limit as per IS 10500:2012 drinking water Specification.

Authorized Signatory

Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.

CORP. OFFICE & Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Veopdara - 390 021 (Gujarat), INDIA. R&D Tel.: +91 - 255 - 2371269 Cell: +91 93285 83835 Email: https://greencircleinc.com/Website: www.greencircleinc.com



Integrated HSEQR Consulting Engineers, Scientists & Trainers (Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)

(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

Date: 13/11/2020

ANALYSIS REPORT

(For	the l	Mont	h of	N	ovem	ber-2	2020)	ł
a series of a series	111111111						Party and a state of the	л

Client deta	ils		Sample Details		
Nome M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd)		Sample Code	GCI/V/20/K1/GW3		
Address	Village -Khaprad	ih, Tehsil – Simga, Dist:	Batch/Location	Nr. Mines Pit Water	
	Baloda Bazar-Bha 493332	itapara, Chhattisgarh-	Date of Sampling	05/11/2020	
Sampling D	Representative		Date of Sample Received	07.01/0200	
Analysis Started Date Analysis Completion Date		07/11/2020		07/11/2020	
				APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
	Color	Hazen	<5	15	APHA 2120
2	Odour		Agreeable	Agreeable	APHA 2150
3	Turbidily	NTU	<1	5	APHA 2130
4	Taste	-	Agreeable	Agreeable	APHA 2160
5	PH		7.2	6.5-8.5	APHA 4500
6	Total Hardness as CaCO3	mg/L	152	600	APHA 2340 C
7	Iron as Fe	mg/L	0.15	0.3	APHA 3111 - B
8	Chloride as Cl	mg/L	28.7	1000	APHA 4500 - CI-
9	Residual Chlorine	mg/L	<0.5	1	APHA 4500 - CI
10	Fluoride as F	mg/L	<0.5	1.5	APHA 4500 - F D
11	Total Dissolved Solids	mg/L	325	2000	APHA 2540 C
12	Calcium	mg/L	28.9	200	APHA 3500 -Ca- B
13	Magnesium	mg/L	6.0	100	APHA 3500 - Mg- B
14	Copper	mg/L	<0.2	1.5	APHA 3111 - B
15	Alkalinity	mg/L	102	600	APHA 2320
16	Ammonia Total	mg/L	ND	0.5	APHA 4500 - NH3
17	Nitrates	mg/L	1.2	45	APHA4500 NO3 8

ND: Note Detected

Remarks: All above parameters are within limit as per IS 10500:2012 drinking water Specification.



Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciary purpose without our prior parmission.

Sample will be retained till one month from the date of sampling.



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(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

(For the Month of November-2020)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

ANALYSIS REPORT

Date: 13/11/2020

Client details			Sample Details		
Name		E RAIPUR CEMENT PLANT Shree Cement Ltd)	Sample Code	GC1/V/20/K1/GW3	
Address Village –K Dist: Baloo		hapradih, Tehsil - Simga,	Batch/Location	Nr. Mines Pit Water	
		da Bazar-Bhatapara, Jarh-493332	Date of Sampling	05/11/2020	
Sampling Dor	e By	GCI REPRESENTATIVE	Date of Sample Received		
Analysis Started Date		07/11/2020		07/11/2020	
Analysis Completion Date		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
18	Mercury	mg/L	ND	0.001	APHA 3112-B
19	Total Chromium	mg/L	ND	2	APHA 3500 - B
20	Barium	mg/L	ND	0.7	APHA 3500 - Ba
21	Zinc	mg/L	<0.1	15	APHA 3111 - B
22	Arsenic	mg/L	ND	0.05	APHA 3500-As
23	Cadmium	mg/L	< 0.002	0.003	APHA 3111 - B
24	Aluminum	mg/L	<0.1	0.2	APHA 3500 - AI - B
25	Selenium	mg/L	ND	0.01	APHA 3500 - Sn
26	Silver	mg/L	ND	0.1	APHA 3500 - Ag
27	Lead	mg/L	ND	0.01	APHA 3111 - B
28	Nickle	mg/L	ND	0.02	APHA 3111 - 8
29	Boron	mg/L	<0,1	1.0	APHA 3500 - B
30	Manganese	mg/L	<0.01	0.3	APHA 3111 - B
31	Chloramines	mg/L	ND	4	APHA 4500- CIO2
32	Sulphates	mg/L	2.2	400	APHA 4500 SO4 - E
33	Sulphide	mg/L	ND	0.05	APHA 4500 SQ
34	Molybdenum	mg/L	ND	0.07	APHA 3500- Mo
35	Phenolic Compound	mg/L	< 0.001	0.002	APHA 5530
36	E-Coli	MPN/100 ml	ND	Absent	APHA 9221 F
37	Mineral Oil	mg/L	ND	0,5	APHA 5520
38	Anionic Detergent as MBAS	mg/L	<0.1	1.0	APHA 5540 - C

Limit, ND: Not detected

R&D

All above parameters are within limit as per 15 10500:2012 drinking water Specification.



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Reports curinol be used as evidence anywhere including judiciary purpose without our prior permission.

sample will be related till one month from the date of sampling.

CORP. OFFICE & : Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Vadodara - 390 021 (Gujarat), INDIA. Tel.: +91 - 265 - 2371269 Cell: +91 93285 83835 Email: info@greencircleinc.com Website: www.greencircleinc.com



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GREEN CIRCLE, INC.

Integrated HSEQR Consulting Engineers. Scientists & Trainers (Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)

(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Cert/fied Organisation)

	No:-GCI/V/LAB/EM-GO	-00/0342 <u>S REPORT</u> November-2020)	Date: 13/1)/2020	
Client detai	the second se		Sample Details	
	M/s. SHREE RAIPU (A Unit of Shree C	ement (td)	Sample Code	GCI/V/20/K1/GW1
Address	Village -Khaprad	ih Tehdi - Simen Dist.	Patat //	
	Balada Bazar-Bhatapara, Chhattisgarh- 493332		Batch/Location	Bore well Water Near GDCL Labour Hutmer
Sampling Do			Date of Sampling	(814)
	Baarrow		Date of Sample Received	05/11/2020
Analysis Started Date Analysis Completion Date		07/11/2020		07/11/2020
COL	inpletion Date	13/11/2020	Sampling Method	APUA 10/0
		GPOUND WATER	and the second se	APHA 1060

GROUND WATER ANALYSIS RESULTS

51.	Paramotore	IL M				
No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for	Reference Method	
1	Color	Homes		Drinking Water		
2	Odour	Hazen	<5	15	APHA 2120	
3	Turbidity	AITH	Agreeable	Agreeable	APHA 2150	
4	Taste	NTU	<	5	APHA 2130	
5	pH	-	Agreeable	Agreeable	APHA 2160	
6	Total Hardness as CaCO3	-	7.2	6.5-8.5	APHA 4500	
7	Iron as Fe	mg/L	112	600	APHA 2340 C	
8	Chloride as Cl	mg/L	ND	0.3	APHA 2111 0	
9	Residual Chlorine	mg/L	92	1000	APHA 3111 - B	
10	Fluoride as F	mg/L	<0.5	1	APHA 4500 - CI-	
11	Total Dissolved Solids	mg/L	<0.5	1.5	APHA 4500 - CI	
12	Calcium	mg/L	226	2000	APHA 4500 - F D	
13	Magnesium	mg/L	32.0	2000	APHA 2540 C	
14		mg/L	11.7	100	APHA 3500 -Co- B	
15	Copper	mg/L	<0.2	1.5	APHA 3500 - Mg- B	
16	Alkalinity	mg/L	104		APHA 3111 - B	
	Ammonia Total	mg/L	ND	600	APHA 2320	
7	Nitrates	mg/L	1.1	0.5	APHA 4500 - NH3	
Re	Note Detected		1.1	45	APHA4500 NO3 B	

Remarks: All above parameters are within limit as per IS 10500:2012 dilnking water Specification.

Authorized Signatory

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Client details Name

Address

Sr. No.

Paramete

GREEN CIRCLE, INC.

Integrated HSEQR Consulting Engineers, Scientists & Trainers

(Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986) (No. Q - 1508 / 32 / 2007 - CPW)

Report No: (GGI/V/IAB/EM GO129/19-3F/1920/November-00/0342 Certified Organisation)

ANALYSIS REPORT (For the Month of N

Date: 13/11/2020

\$	Les ine month i	or November-2020)	
	M/s. SHREE RAIPUR CEMENT PLANT	Sample Details	
-	In onit of shree Cement Ltdl	Sample Code	GCI/V/20/K1/GW1
	Village - Khapradih, Tehsil - Simga, Dist:	Batch/Location	
	Balada Bazar-Bhatapara, Chbattisaarb	and a second	Bore well Water Neo

	sozar-Bhatapara, Chhattisgarh-	Date of Sampling	Bore well Water Near GDC). Labour Hulment (B14)
Sampling Done By Analysis Started Date	GCIPEPPEERA	Date of Sample Received	06/11/00000
Analysis Completion Date		- and a sample Received	07/11/2020
	13/11/2020	Sampling Method	APHA 1060
			AF DA 1060

GROUND WATER ANALYSIS RESULTS

ALL 11291	Parameters	1			
18	Mercury	Unit	Results	Permissible Limits os per la 10500:2012 foi Driakias	r
19		mg/L	ND	Drinking Wate 0.001	the second design of the secon
20	Total Chromium	mg/L	ND	2	APHA 3112-8
21	Barium	mg/L			APHA 3500 - B
	Zinc	mg/L	ND	0.7	APHA 3500 - BO
22	Arsenic		<0,1	15	APHA 3111-B
23	Cadmium	mg/L	ND	0.05	APHA 3500-As
24	Aluminum	mg/L	<0.002	0.003	APHA 3111 - B
25	Selonium	mg/L	<0,1	0.2	APHA 3500 - AL- 8
26	Silver	mg/L	ND	0.01	APHA 3500 - Sn
27	lead	mg/L	ND	0.1	
28	Nickle	Ing/L	ND	0.01	APHA 3500 - Ag
29	Boron	mg/L	ND	0.02	APHA 3111 - B
30		mg/L	<0.1	1.0	APHA 3111 - B
31	Manganese	mg/L	<0.01	0.3	APHA 3500 - 8
	Chloramines	ing/L			APHA 3111-B
32	Sulphotes		ND	4	APHA 4500- CIO2 - D
33	Sulphide	mg/L	2.1	400	APHA 4500 SO4 - E
34	Molybdenum	mg/L	ND	0.05	APHA 4500 S2
A.C	Phenolic Compound	mg/L	ND	0.07	the second se
	B-Coll	mg/L	<0.001	0.002	APHA 3500- Mo
2.00		MPN/100 ml	ND	Abroat	APHA 5530
0	Mineral OII	mg/L	ND		APHA 9221 F
	Anionic Detergent as MBAS	mg/L	<0.1	1.0	APHA 5520
linhow	Not detected		211	1.0	APHA 5540 - C

All above parameters are within limit as per 15 10500:2012 drinking water Specification.

Authorized Signatory

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(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

Date: 13/11/2020

ANALYSIS REPORT

(For the Month of November-2020)

Client deta	ils		Sample Details		
Nome	M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd)		Sample Code	GCI/V/20/K1/GW2	
Address Village – Khapradih, Tehsil – Simga, Dist: Balada Bazar-Bhatapara, Chhattisgarh- 493332		h. Tehsil – Simga, Dist:	Batch/Location	Mine Crusher Line	
		Date of Sampling	05/11/2020		
Sampling D		GCI Representative	Date of Sample Received		
Analysis Started Date Analysis Completion Date		07/11/2020		07/11/2020	
		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
1	Color	Hazen	<5	15	APHA 2120
2	Odour	-	Agreeable	Agreeable	APHA 2150
3	Turbidity	NTU	<1	5	APHA 2130
4	Taste	-	Agreeable	Agreeable	APHA 2160
5	рн	-	7.4	6.5-8.5	APHA 4500
6	Total Hardness as CaCO3	mg/L	158	600	APHA 2340 C
7	Iron as Fe	mg/L	0.11	0.3	APHA 3111 - B
8	Chloride as Cl	mg/L	22.9	1000	APHA 4500 - CI-
9	Residual Chlorine	mg/L	<0.5	1000	APHA 4500 - CI
10	Fluoride as F	mg/L	<0.5	1.5	the second se
Ħ	Total Dissolved Solids	mg/L	212	2000	APHA 4500 - F D
12	Calcium	mg/t	22.3	2000	APHA 2540 C
13	Magnesium	mg/L	13.6	100	APHA 3500 Ca- B
14	Copper	mg/L	<0.2		APHA 3500 - Mg- B
15	Alkolinity	mg/L	112	1.5	APHA 3111 - B
16	Ammonia Total			600	APHA 2320
17	Nitrates	mg/L	ND	0.5	APHA 4500 - NH3
and the state	D: Note Detected	mg/L	1.0	45	APHA4500 NO3 B

D: Note Detected

Remarks: All above parameters are within limit as per 15 10500:2012 drinking water Specification.



Authorized Signatory

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- Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission.
- Sample will be retained till one month from the date of sampling.



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(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-3P/19-20/November-00/0342-Date: 13/11/2020

ANALYSIS REPORT

(For the Month of November-2020)

Client detail	s		Sample Details		
Name	ame M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd)		Sample Code	GCI/V/20/K1/GW2	
Address Village –Khapradih, T Dist: Baloda Bazar-Bh Chhattisgarh-493332		hapradih, Tehsil - Simga,	Batch/Location	Mine Crusher Line	
		da Bazar-Bhatapara, Jarh-493332	Date of Sampling	05/11/2020	
Sampling Do	one By	GCI REPRESENTATIVE	Date of Sample Received		
Analysis Started Date Analysis Completion Date		07/11/2020	are of somple received	07/11/2020	
		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

St. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
18	Mercury	mg/L	ND	0.001	APHA 3112 - B
19	Total Chromium	mg/L	ND	2	APHA 3500 - B
20	Barium	mg/L	ND	0.7	APHA 3500 - Ba
21	Zinc	mg/L	<0,1	15	APHA 3111 - B
22	Arsenic	mg/L	ND	0.05	APHA 3500-As
23	Cadmium	mg/L	<0.002	0.003	APHA 3111 - 8
24	Aluminum	mg/L	<0,1	0.2	APHA 3500 - AI - 8
25	Selenium	mg/L	ND	0.01	APHA 3500 - Sn
26	Silver	mg/L	ND	0.1	APHA 3500 - Ag
27	Lead	mg/L	ND	0.01	APHA 3111 - B
28	Nickle	mg/L	ND	0.02	APHA 3111 - B
29	Boron	mg/L	<0,1	1.0	APHA 3500 - B
30	Manganese	mg/L	<0.01	0.3	APHA 3111 - 8
31	Chloramínes	mg/L	ND	4	APHA 4500- CIO2 - D
32	Sulphates	mg/L	2.4	400	APHA 4500 SO4 - E
33	Sulphide	mg/L	ND	0.05	APHA 4500 S2
34	Molybdenum	mg/L	ND	0.07	APHA 3500- Mo
35	Phenolic Compound	mg/L	<0.001	0.002	APHA 5530
36	E-Coli	MPN/100	ND	Absent	APHA 9221 F
37	Mineral Oil	mg/L	ND	0.5	APHA 5520
38	Anionic Detergent as MBAS	mg/L	<0.1	1.0	APHA 5540 - C

Limit, ND: Not detected

All above parameters are within limit as per 15 10500:2012 drinking water Specification.



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Reports cannot be used as avidence anywhere including judiciary purpose without our prior permission.

Sample will be relained till one month from the date of sampling.



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

Date: 13/11/2020

ANALYSIS REPORT (For the Month of November-2020)

Client deta	ils		Sample Details		
Name		M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd)		GÇI/V/20/K1/GW4	
Address			Batch/Location	Near Gram panchayat Bharuadih Village	
	493332	93332		05/11/2020	
Sampling Done By Analysis Started Date		GCI Representative	Date of Sample Received	07/11/2020	
		07/11/2020		077172020	
Analysis Completion Date		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Mełhod
1	Color	Hazen	<5	15	APHA 2120
2	Odour	-	Agreeable	Agreeable	APHA 2150
3	Turbidity	NTU	<1	5	APHA 2130
4	Tasle	-	Agreeable	Agreeable	APHA 2160
5	pH	-	7.24	6.5-8.5	APHA 4500
6	Total Hardness as CaCO ₃	mg/l.	122	600	APHA 2340 C
7	Iron as Fe	mg/L	0.02	0.3	APHA 3111 - B
8	Chloride as Cl	mg/L	95.3	1000	APHA 4500 - CI-
9	Residual Chlorine	mg/L	<0.5	1	APHA 4500 - Cl
10	Fluoride as F	mg/L	<0.5	1.5	APHA 4500 - F D
11	Total Dissolved Solids	mg/L	502	2000	APHA 2540 C
12	Calcium	mg/L	84.2	200	APHA 3500 Ca B
13	Magnesium	mg/L	48.6	100	APHA 3500 - Mg- B
14	Copper	mg/L	<0.2	1.5	APHA 3111-B
15	Alkalinity	mg/L	98.6	600	APHA 2320
16	Ammonia Total	mg/L	ND	0.5	APHA 4500 - NH3
17	Nitrates	mg/L	4,1	45	APHA4500 NO3 8

ND: Note Detected

Remarks: All above parameters are within limit as per is 10500:2012 drinking water Specification.



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Sample will be retained till one month from the date of sampling.



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(No. Q - 1508 / 32 / 2007 - CPW)

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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342-

Date: 13/11/2020

ANALYSIS REPORT

(For the Month of November-2020)

Client details			Sample Details		
Mame M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd)		Sample Code	GCI/V/20/K1/GW4		
Address		hapradih, Tehsil – Simgo. da Bazar-Bhatapara,	Batch/Location	Near Gram panchayot Bharuadih Village	
		jorh-493332	Date of Sampling	05/11/2020	
Sampling Do	one By	GCI REPRESENTATIVE	Date of Sample		
Analysis Started Date		07/11/2020	Received	07/11/2020	
Analysis Completion Date 13/11/202		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
18	Mercury	mg/L	ND	100.0	APHA 3112 - B
19	Total Chromium	mg/L	ND	2	APHA 3500 - 8
20	Barium	mg/L	ND	0.7	APHA 3500 - Ba
21	Zinc	mg/L	<0.1	15	APHA 3111 - B
22	Arsenic	mg/L	ND	0.05	APHA 3500-As
23	Cadmium	mg/L	<0.002	0.003	APHA 3111-B
24	Aluminum	mg/L	< 0.1	0.2	APHA 3500 - AI - B
25	Selenium	mg/L	ND	0.01	APHA 3500 - Sn
26	Silver	mg/l	ND	0.1	APHA 3500 - Ag
27	Lead	mg/L	ND	0.01	APHA 3111 ~ 8
28	Nickle	mg/L	ND	0.02	APHA 3111 - B
29	Boron	mg/L	<0.1	1.0	APHA 3500 - B
30	Mongonese	mg/L	< 0.01	0.3	APHA 3111 - B
31	Chloramines	mg/t	ND	4	APHA 4500- CIO2 D
32	Sulphates	mg/L	2.7	400	APHA 4500 SO4 - E
33	Sulphide	mg/L	ND	0.05	APHA 4500 S2
34	Molybdenum	mg/L	ND	0.07	APHA 3500- Mo
35	Phenolic Compound	mg/L	< 0.001	0.002	APHA 5530
36	E-Coli	MPN/100 ml	ND	Absent	APHA 9221 F
37	Mineral Oil	mg/L	ND	0.5	APHA 5520
38	Anionic Detergent as MBAS	mg/L	<0.1	1.0	APHA 5540 - C

Limil, ND: Not detected

All abave parameters are within limit as per IS 10500:2012 drinking water Specification.



- Analysis is subject to the condition in which the sample is received at our Laboratory.
- Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission.
 - Sample will be retained thil one month from the date of sampling.

CORP. OFFICE & : Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Vadodara - 390 021 (Gujarat), INDIA. Tel.: +91 - 265 - 2371269 Cell: +91 93285 83835 Email: info@greencircleinc.com Website: www.greencircleinc.com

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(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LA8/EM-G0121/19-3P/19-20/November-00/0542

Dule: 13/11/2020

ANALYSIS REPORT

(For the Month of November-2020)

Client deta	ils		Sample Details		
Name	M/s. SHREE RAIPUI (A Unit of Shree C		Sample Code	GCI/V/20/K1/GW5	
		h, Tehsil – Simga, Dist: Itapara, Chhattisgarh-	Batch/Location	Near Gram panchayat Khapradih Village	
	493332		Date of Sampling	05/11/2020	
Sampling D		GCI Representative	Date of Sample Received	07/11/2020	
Analysis Started Date Analysis Completion Date		07/11/2020		APHA 1060	
		13/11/2020	Sampling Method		

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
1	Color	Hazen	<5	15	APHA 2120
2	Odour	-	Agreeable	Agreeable	APHA 2150
3	Turbidity	NTU	<1	5	APHA 2130
4	Taste	-	Agreeable	Agreeable	APHA 2160
5	pH		7.4	6.5-8.5	APHA 4500
6	Total Hardness as CaCO3	mg/L	186	600	APHA 2340 C
7	Iron as Fe	mg/L	ND	0.3	APHA 3111 - 8
8	Chloride as Cl	mg/L	122	1000	APHA 4500 - CI-
9	Residual Chlorine	mg/L	<0.5	1	APHA 4500 - CI
10	Fluoride as F	mg/L	<0.5	1,5	APHA 4500 - F D
11	Total Dissolved Solids	mg/L	358	2000	APHA 2540 C
12	Calcium	mg/L	38.5	200	APHA 3500 -Co- B
13	Magnesium	mg/L	10.2	100	APHA 3500-Mg-B
14	Copper	mg/L	<0.2	1.5	APHA 3111-8
15	Alkalinity	mg/L	124	600	APHA 2320
16	Ammonia Total	mg/L	ND	0.5	APHA 4500 - NH3
17	Nitratos	mg/L	3.2	45	APHA4500 NO3 E

ND; Note Detected

Remarks: All above parameters are within limit as per IS 10500:2012 drinking water Specification.



Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. ÷

Sample will be retained till one month from the date of sampling.



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(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

Date: 13/11/2020

ANALYSIS REPORT

(For the Month of November-2020)

Client details			Sample Details		
Namø		E RAIPUR CEMENT PLANT Shree Cement Ltd)	Sample Code	GCI/V/20/K1/GW5	
		hapradih, Tehsil – Simga, da Bazar-Bhatapara,	Batch/Location	Near Gram panchayat Khapradih Village	
		arh-493332	Date of Sampling	05/11/2020	
Sampling Do	one By	GCI REPRESENTATIVE	Date of Sample		
Analysis Storled Date		07/11/2020	Received	07/11/2020	
Analysis Completion Date 13/11/2020		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
18	Mercury	mg/l	ND	0.001	APHA 3112-B
19	Total Chromium	mg/L	ND	2	APHA 3500 - B
20	Barium	mg/L	ND	0.7	APHA 3500 - Ba
21	Zinc	mg/L	<0.1	15	APHA 3111 - B
22	Arsenic	mg/L	ND	0.05	APHA 3500-As
23	Cadmium	mg/L	<0.002	0.003	APHA 3111 - B
24	Aluminum	mg/L	<0.1	0.2	APHA 3500 - AI - B
25	Selenium	mg/L	ND	0.01	APHA 3500 - Sn
26	Silver	mg/L	ND	0.1	APHA 3500 - Ag
27	Lead	mg/L	ND	0.01	APHA 3111 - B
28	Nickle	mg/L	ND	0.02	APHA 3111 - B
29	Beron	mg/L	<0.1	1.0	APHA 3500 - B
30	Manganese	mg/L	<0.01	0.3	APHA 3111 - B
31	Charamines	mg/L	ND	4	APHA 4500- CIO2 D
- 32	Sulphates	mg/L	2.1	400	APHA 4500 \$04 - E
33	Suphide	mg/L	ND	0.05	APHA 4500 S2
34	Molybdenum	mg/L	ND	0.07	APHA 3500- Mo
35	Phonolic Compound	mg/L	<0.001	0.002	APHA 5530
36	5-Coli	MPN/100 ml	ND	Absent	APHA 9221 F
37	Mineral Oil	mg/L	ND	0.5	APHA 5520
38	Amonic Detergent as MBAS	mg/L	<0.1	1.0	APHA 5540 - C

CONSING Set delected

At above parameters are within limit as per IS 10500;2012 drinking water Specification.



Another is subject to the condition in which the sample is received at our taboratory.

is will be relained fill one month from the date of sampling.

CORP. OFFICE & : Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Vadodara - 390 021 (Gujarat), INDIA. R & D Tel.: +91 - 265 - 2371269 Cell: +91 93285 83835 Email: info@greencircleinc.com Website: www.greencircleinc.com



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(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL/ ISO / IEC 17025 Certified Organisation)

Report Not-GCI/V/LAB/EM-G0121/19-SF/19-20/November-00/0342

Date: 13/11/2020

ANALYSIS REPORT

(For the Month of November-2020)

Cilent deta	lis		Sample Details		
Name	M/s. SHREE RAIPUR (A Unit of Shree C		Sample Code	GCI/V/20/K1/GW6	
Address		h, Tehsil – Simga, Dist: tapara, Chhattisgarh-	Batch/Location	Near Gram panchayat Champa Village	
	473332		Date of Sampling	05/11/2020	
Sompling C	one By	GCI Representative	Date of Sample Received	07/11/2020	
Analysis Staded Date		07/11/2020		0,711,2020	
Analysis Completion Date		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
1	Color	Hazen	<5	15	APHA 2120
2	Cidoux	-	Agreeable	Agreeable	APHA 2150
3	Turbidity	NTU	<1	5	APHA 2130
4	Taste	-	Agreeable	Agreeable	APHA 2160
5	(c))-(×	7.12	6.5-8.5	APHA 4500
6	Total Hardness as CaCO3	mg/L	152	600	APHA 2340 C
7	Notion Se	mg/L	0.03	0.3	APHA 3111 - B
8	Change as Cl	mg/L	102	1000	APHA 4500 - CI-
9	idea de chlorine	mg/L	<0.5	1	APHA 4500 - CI
10	humida as F	mg/L	<0.5	1.5	APHA 4500 - F D
11	The state of ved Solids	mg/L	452	2000	APHA 2540 C
12	Cosium	mg/L	102.3	200	APHA 3500 -Ca- 8
13	Mice via obligen	mg/L	40.1	100	APHA 3500 - Mg- B
14	Company	mg/L	<0.2	1.5	APHA 3111 - B
15	1 7	mg/L	138	600	APHA 2320
16	a total	mg/L	ND	0.5	APHA 4500 - NH3
17	mder.	mg/L	3.1	45	APHA4500 NO3 B

N ford

Remove a Actuative parameters are within limit as per (\$ 10500:2012 drinking water Specification.



Is subject to the condition in which the sample is received at our Laboratory, point cannot be used as evidence anywhere including judiciary purpose without our prior permission, with be retained till one month from the date of sampling.



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(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

ANALYSIS REPORT

Date: 13/11/2020

(For the Month of November-2020)

Client details			Sample Details		
Mame M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd)		Somple Code	GCI/V/20/K1/GW6		
Address			Batch/Location	Near Gram panchayat Champa Village	
	Chhattisg	arh-493332	Date of Sampling	05/11/2020	
Sampling Dor	ie By	GCI REPRESENTATIVE	Date of Sample		
Anolysis Started Date		07/11/2020	Received	07/11/2020	
Ano sis Completion Date		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
3.8	Mercury	mg/L	ND	0.001	APHA 3112-8
15	Total Chromium	mg/L	ND	2	APHA 3500 - B
20	Barium	mg/L	ND	0.7	APHA 3500 - Ba
21	Zinc	mg/L	<0.1	15	APHA 3111 - B
22	Arsonic	mg/L	ND	0.05	APITA 3500-As
23	Cadmium	mg/L	<0.002	0.003	APHA 3111 - B
91	Aluminum	mg/L	<0.1	0.2	APHA 3500 - AI - B
-24	Selenium	mg/L	ND	0.01	APHA 3500 - Sn
26	Silver	mg/L	ND	0.1	APHA 3500 - Ag
22	Lead	mg/L	ND	0.01	APHA 3111 - B
24	Nickle	mg/L	ND	0.02	APHA 3111 - B
20	Boron	mg/L	<0.1	1.0	APHA 3500 - B
1311	Manganese	mg/L	<0.01	0.3	APHA 3111 - B
51	Chloramines	mg/L	ND	4	APHA 4500- CIO2
3.2	Sulphates	mg/L	2.5	400	APHA 4500 SO4 - E
1210	Sulphide	mg/L	ND	0.05	APHA 4500 S2
74.	Molybdenum	mg/L	ND	0.07	APHA 3500- Mo
25	Phenolic Compound	mg/L	<0.001	0.002	APHA 5530
9	E-Coli	MPN/100 ml	ND	Absent	APHA 9221 F
37	Mineral Oil	mg/L	ND	0.5	APHA 5520
36	Anionic Detergent as MBAS	mg/L	<0.1	1.0	APHA 5540 - C

it,ND: Not detected

above parameters are within limit as per IS 10500:2012 drinking water Specification,



Authorized Signatory

Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as ovidence anywhere including judiciary purpose without our prior permission.

Sample will be retained till one month from the date of sampling.

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(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

Date: 13/11/2020

ANALYSIS REPORT

(For the Month of November-2020)

Client details			Sample Details		
Nome	M/s. SHREE RAIPUI (A Unit of Shree C	ement Ltd)	Sample Code	GCI/V/20/K1/GW7	
Address Village Khapro		h, Tehsil – Simga, Dist: tapara, Chhattisgarh-	Batch/Location	Near Gram panchayat Sarseni Village	
	493332		Date of Sampling	05/11/2020	
Sampling D		GCI Representative	Date of Sample Received		
Analysis Started Date Analysis Completion Date		07/11/2020		07/11/2020	
		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
1	Color	Hozen	<5	15	APHA 2120
2	Odour	-	Agreeable	Agreeable	APHA 2150
3	Turbidity	NTU	<1	5	APHA 2130
4	Taste	+	Agreeable	Agreeable	APHA 2160
.5	pH		7.2	6.5-8.5	APHA 4500
6	Total Hardness as CaCO ₃	mg/L	164	600	APHA 2340 C
7	Iron as Fe	mg/l.	0.14	0.3	APHA 3111 - B
8	Chloride as Cl	mg/L	20.4	1000	APHA 4500 - CI-
9	Residual Chlorine	mg/L	<0.5	1	APHA 4500 - CI
10	Fluoride as F	mg/L	<0.5	1.5	
11	Total Dissolved Solids	mg/L	408	2000	APHA 4500 - F D
12	Calcium	mg/L	38	2000	APHA 2540 C
13	Magnesium	mg/L	12.4	100	APHA 3500-Ca-B
14	Copper	mg/L	<0.2	the second s	APHA 3500 - Mg- B
15	Alkalinity	mg/L	160	1,5	APHA 3111 - 8
16	Ammonia Total	mg/L	ND	600	APHA 2320
17	Nitrates		the second se	0.5	APHA 4500 - NH3
and it is not the owned	Visite Detected	mg/L	3.54	45	APHA4500 NO3 B

ND: Note Detected

Remarks: All above parameters are within first as per IS 10500:2012 drinking water Specification.



Analysis is subject to the condition in which the sample is received at our Laboratory.

- Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission.
 - Sample will be retained fill one month from the date of sampling.



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(No. Q - 1508 / 327 2007 - CPW) (ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation) Report No:-GCI/V/LAB/FM-G0121/19-SP/19-20/November-00/0342 Dote: 13/11/2020

ANALYSIS REPORT

(For the Month of November-2020)

Client details			Sample Details		
Nome	M/s. SHRE (A Unit of	E RAIPUR CEMENT PLANT Shree Cement Ltd)	Sample Code	GCI/V/20/K1/GW7	
Address Village – Dist: Balo		(hapradih, Tehsil – Simga, da Bazar-Bhatapara,	Batch/Location	Near Gram panchayaf Sarseni Village 05/11/2020	
	Chhattisgarh-493332		Date of Sampling		
Sampling Dor		GCI REPRESENTATIVE	Date of Sample	03/11/2020	
Analysis Started Date		07/11/2020	Received	07/11/2020	
Analysis Completion Date		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	Reference Method
18	Mercury	mg/L	ND	0.001	APHA 3112 - B
19	Total Chromium	mg/L	ND	2	APHA 3500 - B
20	Barium	mg/L	ND	0.7	APHA 3500 - Ba
21	Zinc	mg/L	<0.1	15	APHA 3111 - 8
22	Arsenic	mg/L	ND	0.05	APHA 3500-As
23	Cadmium	mg/L	<0.002	0.003	APHA 3111 - B
24	Aluminum	mg/L	<0.1	0.2	APHA 3500 - AI - B
25	Selenium	mg/L	ND	10.0	APHA 3500 - Ar - B
26	Silver	mg/L	ND	0.1	APHA 3500 - Ag
27	Lead	mg/L	ND	0.01	the second se
28	Nickle	mg/L	ND	0.02	APHA 3111 ~ B
29	Boron	mg/L	<0.1	1.0	APHA 3111 - 8
30	Manganese	mg/L	<0.01	0.3	APHA 3500 - B
31					APHA 3111 - B
	Chloromines	mg/L	ND	4	APHA 4500- CIO2
32	Sulphates	mg/L	3.1	400	APHA 4500 SO4 - E
33	Sulphide	mg/L	ND	0.05	
34	Molybdenum	mg/L	ND	0.07	APHA 4500 S2
35	Phenolic Compound	mg/L	<0.001	0.002	APHA 3500- Mo
36	E-Coli	MPN/100 ml	ND	Absent	APHA 5530 APHA 9221 F
37	Mineral Oil	mg/L	ND	0.5	APHA 5520
38	Anionic Detergent as MBAS	mg/L	<0.1		APHA 5540 - C

mil, NO: Not detected

All above parameters are within limit as per is 10500:2012 drinking water Specification.



Analysis is subject to the condition in which the sample is received at our Laboratory.

Recents cannot be used as evidence anywhere including judictory purpose without our prior permission. sample will be relained fill one month from the date of sampling.



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(No. Q - 1508 / 32 / 2007 - CPW) (No. Q - 1508 / 32 / 2007 - CPW) Report No: CC/V/LAB/EM-G0121/19-SP/19-20/November-00/0342 Dote

ANALYSIS REPORT

(For the Month of November-2020)

Client deto	ils				
Nome M/s. SHREE RAIPUR CEMENT PLANT		Sample Details			
	(A Unit of Shree C	(A Unit of Shree Cement Ltd)		GCI/V/20/K1/GW8	
Address Village -Khaprodik		ih Tehsil Simon Dial	_	000	
	Balada Bazar-Bha 493332	atapara, Chhattisgarh-	Batch/Location	Near Gram panchaya	
Sampling D			Date of Sampling	Semaradih Village	
oumping D	one by	GCI	Date of Sample	05/11/2020	
Analysis Sta	ided Date	Representative	Received		
Analysis Completion Date		07/11/2020		07/11/2020	
CO CO	impletion Date	13/11/2020	Sampling Method		
		1.9111/2020	- mang memod	APHA 1060	

GROUND WATER ANALYSIS RESULTS

31.			the second se		
No.	Parameters	Unif	Results	Permissible Limits as per IS 10500:2012 for	Reference Method
	Color	Hazen	<5	Drinking Water	
2	Odour	-	the second se	15	APHA 2120
3	Turbidity	NTU	Agreeable	Agreeable	APHA 2150
4	Taste	INIO	1>	5	APHA 2130
5	pH		Agreeable	Agreeable	APHA 2160
6	Total Hardness as CaCO3	-	7.52	6.5-8.5	APHA 4500
7	Iron as Fe	mg/L	164	600	APHA 2340 C
8	Chloride as Cl	mg/L	0.12	0.3	APHA 3111 - B
9	Residual Chlorine	mg/L	202	1000	APHA 4500 - CI-
10	Fluoride as F	mg/L	<0.5		
11		mg/L	<0.5	1.5	APHA 4500 - CI
12	Total Dissolved Solids Calcium	mg/L	512	2000	APHA 4500 - F D
13		mg/L	101	200	APHA 2540 C
	Magnesium	mg/L	54.2		APHA 3500 - Co- B
14	Copper	mg/L	<0.2	100	APHA 3500 - Mg- B
15	Alkalinity	mg/L	158	1.5	APHA 3111-8
16	Ammonia Total	mg/L	ND	600	APHA 2320
17	Nitrates	mg/L	and the second se	0.5	APHA 4500 - NH3 .
	Note Detected	ingre	5.1	45	APHA4500 NO3 B

Remarks: All above parameters are within limit as per IS 10500:2012 drinking water Specification.



Date: 13/11/2020

Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.



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Integrated HSEQR Consulting Engineers, Scientists & Trainers

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(No. Q - 1508 / 32 / 2007 - CPW)

Report No: GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342 Date: 13/11/2020

ANALYSIS REPORT (For the Month of November 2020)

Client detail	\$		or november-2020)		
Name Mare Supe			Sample Details		
	M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd)		Sample Code	GCI/V/20/K1/GW8	
Address.		(hapradih, Tehsil – Simga,	Batch/Location		
	Dist: Balo	da Bazar-Bhatapara.		Near Gram panchayat Semaradih Village	
	Chhattise	arh-493332	Date of Sampling		
Sampling Do	ne By	GCI REPRESENTATIVE	the second s	05/11/2020	
Analysis Started Date		07/11/2020	Date of Sample Received	07/11/2020	
Analysis Completion Date		13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No. 18	Parameters	Unit	Results	Permissible Limits as per IS 10500:2012 for Drinking Water	
10	Mercury	mg/L	ND	0.001	APHA 3112-8
_	Total Chromium	mg/L	ND	2	APHA 3500 - 8
20	Barium	mg/L	ND	0.7	APHA 3500 - Bo
21	Zinc	mg/L	<0.1	15	APHA 3111 ~ B
22	Arsenic	mg/L	ND	0.05	
23	Cadmium	mg/L	< 0.002	0.003	APHA 3500-As
24	Aluminum	mg/L	<0.1	0.2	APHA 3111 - B
25	Selenium	mg/L	ND	0.01	APHA 3500 - AI - B
26	Silver	mg/L	ND		APHA 3500 - Sn
27	Lead	mg/L	and the second second	0.1	APHA 3500 - Ag
28	Nickle _	mg/L	ND	0.01	APHA 3111 - 8
29	Boron	and the same of th	ND	0.02	APHA 3111 - B
30	Manganese	mg/L	<0.1	1.0	APHA 3500 - B
31		mg/L	<0.01	0.3	APHA 3111 - B
	Chloramines	mg/L	ND	4	APHA 4500- CIO2
32	Sulphates	mg/L	2.4	400	
33	Sulphide	mg/L	ND	0.05	APHA 4500 SO4 - E
34	Molybdenum	mg/L	ND	0.07	APHA 4500 S2
35	Phenolic Compound	mg/L	< 0.001	0.002	APHA 3500- Mo
36	E-Coli	MPN/100 ml	ND	Absent	APHA 5530 APHA 9221 F
37	Mineral Oil	mg/L	ND	0.5	
38	Anionic Detergent as MBAS	mg/L	<0.1	1.4	APHA 5520
Limit, N	ID: Not detected	1		1.0	APHA 5540 - C

All above parameters are within limit as per IS 10500:2012 drinking water Specification.



Analysis is subject to the condition in which the sample is received at our Laboratory.

- Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained fill one month from the date of sampling.

R&D

CORP. OFFICE & : Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Vadodara - 390 021 (Gujarat), INDIA. Tel.: 191 - 265 - 2371269 Cell; 191 90205 60835 Email: into@greencircleinc.com Website: www.greencircleinc.com



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GREEN CIRCLE, INC.

Integrated HSEQR Consulting Engineers, Scientists & Trainers

(Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986) (No. Q - 1508 / 32 / 2007 - CPW)

Report No: GCI/V/LAB/EM-G0121/19-SP/19-20/November-00/0342

ANALYSIS REPORT

Date: 13/11/2020

	troi me womn of	November-2020)		
	Declaration	Sample Details		
(A Unit of Shree C	R CEMENT PLANT	Sample Code	GCI/V/20/K1/GW9	
Village - Khaprad	h Tehsil - Siman Dist			
Balada Bazar-Bho	tapara, Chhattisgarh-	Batch/Location	Near Gram ponchaya Chandi Village	
		Date of Sampling	and the second se	
е ву	GCI	Date of Sample	05/11/2020	
d Data	Representative			
	07/11/2020		07/11/2020	
pletion Date	13/11/2020	Sampling Method	APHA 1060	
	M/s. SHREE RAIPU (A Unit of Shree C Village – Khaprad	M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd) Village – Khapradih, Tehsil – Simga, Dist: Baloda Bazar-Bhatapara, Chhattisgarh- 493332 re By GCI Representative	M/s. SHREE RAIPUR CEMENT PLANT (A Unit of Shree Cement Ltd) Sample Details Village – Khapradih, Tehsil – Simga, Dist: Baloda Bazar-Bhatapara, Chhattisgarh- 493332 Batch/Location Date of Sampling Date of Sample Representative date 07/11/2020	

GROUND WATER ANALYSIS RESULTS

ar.	Paramantan	LI TOTO NEDULIS				
No.			Results	Permissible Limits as per IS 10500:2012 for	Reference Method	
	Color	Hazen	<5	Drinking Water		
2.	Odour	- Contraction		15	APHA 2120	
3	Turbidity	NTU	Agreeable	Agreeable	APHA 2150	
4	Taste	INIO	<1	5	APHA 2130	
5	pH		Agreeable	Agreeable	APHA 2160	
6	Total Hardness as CaCO3		7.2 -	6.5-8.5	APHA 4500	
7	Iron as Fe *	mg/L	174	600	APHA 2340 C	
8	Chloride as Cl	mg/L	0.12	0.3		
9	Residual Chlorine	mg/L	19.9	1000	APHA 3111 - B	
10	Fluoride as F	mg/L	<0.5	1	APHA 4500 - CI-	
11		mg/L	<0.5	1,5	APHA 4500 - CI	
12	Total Dissolved Solids	mg/L	451	2000	APHA 4500 - F D	
-	Calcium	mg/L	26,3		APHA 2540 C	
13	Magnesium	mg/L	15.2	200	APHA 3500 - Co- B	
14	Copper	mg/L	<0.2	100	APHA 3500 - Mg- B	
15	Alkalinity	mg/L	20A1	1.5	APHA 3111 - B	
16	Ammonia Total	mg/L	ND	600	APHA 2320	
7 *	Nitrates	Contraction of the local sectors of the local secto		0.5	APHA 4500 - NH3	
ND	: Note Detected	mg/L	2.5	45	APHA4500 NO3 B	

Remarks: All above parameters are within limit as per 15 10500:2012 drinking water Specification.

Authorized Signatory

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Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciony purpose without our prior permission. Sample will be retained till one month from the date of sampling.



Client details

GREEN CIRCLE, INC.

Integrated HSEQR Consulting Engineers. Scientists & Trainers

(Recognised By Ministry of Environment, Forest and Climate Change, New Delbi Under EPA 1986)

(No. Q - 1508 / 32 / 2007 - CPW)

Report No. SCI/WIAB/EM-G0121/19-SP/19-20/November-00/0342

ANALYSIS REPORT

Date: 13/11/2020

(For the Month of November-2020)

Name		E BAIOUD OF LEVE	Sample Details	3	
	(A Unit of	E RAIPUR CEMENT PLANT	Sample Code	GCI/V/20/K1/GW9	
Village -		Chapradih Tehtil Sterre	Batch/Location	Near Gram panchoyat Chandi Village	
Sampling Day	Dist: Baloda Bazar-Bhatapara, Chhattisgarh-493332		Date of Sampling		
Sampling Don	еву	GCI REPRESENTATIVE	Date of Sample	05/11/2020	
Analysis Started Date Analysis Completion Date		07/11/2020	Received	07/11/2020	
and yas com	pletion Date	13/11/2020	Sampling Method	APHA 1060	

GROUND WATER ANALYSIS RESULTS

Sr. No,	rarameters	Unit	Results	Permissible Limits as per IS 10500:2012 for	1
18	Mercury	mg/L	ND	Drinking Water	the second se
19	Total Chromium	mg/L	ND	0.001	APHA 3112-B
20	Barium	mg/L	ND	2	APHA 3500 - B
21	Zinc	mg/L		0.7	APHA 3500 - Bo
22	Arsenic	mg/L	<0.1	15	APHA 3111 - B
23	Cadmium	mg/L	ND	0.05	APHA 3500-As
24	Aluminum	a second s	<0.002	0.003	APHA 3111 - 8
25	Selenium	mg/L mg/L	<0.1	0.2	APHA 3500 - AI - B
26	Silver		ND	0.01	APHA 3500 - Sn
27	Lead	mg/L	ND	0.1	APHA 3500 - Ag
28	Nickle	mg/L	ND	0.01	APHA 3111 - B
29	Boron	mg/L	ND	0.02	APHA 3111 - B
30	Manganese	mg/L	<0.1	0.1	APHA 3500 - B
31		mg/L	<0.01	0.3	APHA 3111-B
00	Chloramines	mg/L	ND	4	APHA 4500- CIO2
32	Sulphates	mg/L	2.1		D
33	Sulphide	mg/L	ND	400	APHA 4500 SO4 - E
	Molybdenum	mg/L	the second se	0.05	APHA 4500 S2
35	Phenolic Compound	mg/L	ND	0.07	APHA 3500- Mo
56 I	E-Coli	MPN/100	<0.001	0.002	APHA 5530
		ml	ND	Absent	APHA 9221 F
	Mineral Oil	mg/L	ND		
	Anionic Defergent as MBAS	mg/L	<0.1	10	арна 5520 Арна 5540 – С

All above parameters are within limit as per IS 10500:2012 drinking water Specification,



Analysis is subject to the condition in which the sample is received at our Laboratory.

Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission. Sample will be retained till one month from the date of sampling.

CORP. OFFICE & : Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Gots Main Road, Vadedara - 390 021 (Gujarat), INDIA. Tel.: +91 - 265 - 2371259 Cell: +91 93265 63835 Email: Info@greencircleinc.com Website: www.greencircleinc.com



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GREEN CIRCLE, INC.

Integrated HSEOR Consulting Engineers, Scientists & Trainers (Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)

(No. Q - 1608 / 32 / 2007 - CPW)

(ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-\$P/19-20/ October -00/0341 ANALYSIS REPORT

Dala: 31/10/2020

			-	_	_	
(For t	he	Month	of	Octo	har	20001
Summer Street and			M 1	CLIO	Der	ZUZUI

Client Details		Sample Details			
Name	M/s. SHREE RA	M/s. SHREE RAIPUR CEMENT PLANT		GCI/V/20/J4/SSP/WWI	
			Location	STP-1 OUTLET (Nr. Packing Area)	
{A	A Unit of M/s.	(A Unit of M/s. Shree Cement Ltd), Village – Khapradih, Dist: Baloda Bazar-		1000 ml	
Address	Bhatapara, Ro 492001	alpur, Dist: Baloda Bazar- bipur, Chattisgarh-	Date of Sampling	24/10/2020	
Sampling	Done By	GCI Representative	Date of Sample		
Analysis Starts on Analysis Completion On		27/10/2020	Received	27/10/2020	
		31/10/2020	Sampling Method	APHA 1060	

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Prescribed Limits	Reference Method
1.	рН		8.25	6.5 - 9.0	APHA 4500 H+
2.	Total Suspended Solids (TSS)	mg/L	47	100	APHA 2540 D
3.	Biochémical Oxygen Demand (BOD)	mg/L	17	30	APHA 5210
4,	Chemical Oxygen Demand (COD)	mg/L	115	250	APHA 5220
5.	Oil & Grease	mg/L	0.45	10	APHA 5220

Authorized Signatory

- Analysis is subject to the condition in which the sample is received at our Laboratory.
- Reports cannot be used as evidence onywhere including judiciary purpose without out prior permission. Sample will be retained till one month from the date of sampling.



Integrated HSEQR Consulting Engineers, Scientists & Trainers (Recognised By Ministry of Environment, Forest and Climate Change, New Dethi Under EPA 1986) (No. Q - 1508 / 32 / 2007 - CPW) (ISO 9001, 14001, OHSAS 18001 & NABL / ISO / IEC 17025 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ October -00/0341

ANALYSIS REPORT (For the Month of October- 2020)

Date: 31/10/2020

Client Del	làils		Sample Details		
Name	M/s. SHREE RAIPUR CEMENT PLANT		Sample Code	GCI/V/20/J4/WW2	
			Location	STP-2 OUTLET	
	(A Unit of M/s.	Shree Cement Ltd],	Quantity	(Nr. CCR Building)	
Address	Village – Khapradih, Dist:Baloda Bazar- Bhatapara, Raipur, Chattisgarh- 492001		Godniny	1000 ml	
			Date of Sampling	24/10/2020	
Sampling		GCI Representative			
Analysis St		27/10/2020	Date of Sample Received	27/10/2020	
Analysis C	ompletion On	31/10/2020	Sampling Method		
			sumpling method	APHA 1060	

WASTE WATER ANALYSIS RESULTS

Sri No.	Parameters	Unit	Results	Prescribed Limits	Reference Method
1.	Н		8.18	6.5 - 9.0	APHA 4500 H
2;	Total Suspended Solids (TSS)	mg/L	42	100	and the second sec
3.	Biochemical Oxygen Demand (80D)	mg/L	. 19	30	АРНА 2540 D АРНА 5210
4.	Chemical Oxygen Demand (COD)	mg/L	112	050	in the second second
5.	Oil & Grease	mg/L		250	APHA 5220
		mgru	0.35	10	APHA 5220



Authorized Signatory

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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/ November -00/0342

Date: 13/11/2020

ANALYSIS REPORT (For the Month of November- 2020)

Client De	tails		Sample Details	4	
Afrennen -	M/s. SHREE RA	IPUR CEMENT PLANT			
Name	In Printing Printing & Middle	CLARKER FLAN	Sample Code	GCI/V/20/K1/SSP/WW1	
	TA Bull of Sale		Location	STP-1 OUTLET (Nr. Packing Area)	
	Village Kheen	(A Unit of M/s. Shree Cement Ltd), VillageKhapradih; Dist: Baloda Bazar-		1000 ml	
Address	A92001	alpur, Chattisgarh-	Date of Sampling	05/11/2020	
Sampling		GCI Representative	Data da		
Analysis Starts on Analysis Completion On		07/11/2020	Date of Sample Received	07/11/2020	
		13/11/2020			
		T THE REAL	Sampling Method	APHA 1060	

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Prescribed Limits	Reference Method	
1.	pH		8.2	6.5 - 9.0		-
2.	Total Suspended Solids (TSS)	mg/L	38		APHA 4500 H+	-
3.			- 30	100	APHA 2540 D	
1	Biochemical Oxygen Demand (BOD)	mg/L	:24	30	APHA 5210	
4.	Chemical Oxygen Demand (COD)	mg/L	114	250	APHA 5220	-
5.	Oil & Grease				AFRA 5220	_
		mg/L	0.3	10	APHA 5220	



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/November -00/0342

Dale: 13/11/2020

ANALYSIS REPORT (For the Month of November- 2020)

Client De	Talls		Sample Details	
Name , A	M/S. SHREE RAIPUR CEMENT PLANT		Sample Code	GCI/V/20/K1/WW2
			Location	STP-2 OUTLET
	(A Unit of M/s.	Shree Cement Ltd),	Quantity	(Nr. CCR Building)
Address	492001	adih, Dist: Baloda Bazar- ipur, Chattisgarh-	Date of Sampling	05/11/2020
Sampling	Done By	GCI Representative		
Analysis Starts on Analysis Completion On		07/11/2020	Date of Sample Received	07/11/2020
		13/11/2020	Sampling Method	
	and the second second second second		and a meniod	APHA 1060

WASTE WATER ANALYSIS RESULTS

Sr.			1		
No.	Parameters	Unif	Results	Prescribed Limits	Reference Method
L	На	~*	7.47	6.5 - 9.0	APHA 4500 H+
2.	Total Suspended Solids (TSS)	mg/L	20 -	100	
3.	Biochemical Oxygen Demand (BOD)	mg/L	22	30	APHA 2540 D
4.	Chemical Oxygen Demand (COD)	mg/L	102	260	
5,	Oil & Grease	mg/L		250	APHA 5220
	1	mg/L	0.5	10	APHA 5220



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Integrated HSEQR Consulting Engineers, Scientists & Trainers (Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986) (No. Q - 1508 / 32 / 2007 - CPW) (ISO 9001, 14001 & OHSAS 18001 Certified Organisation)

Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/December -00/0400

Date: 02/01/2021

ANALYSIS REPORT (For the Month of December- 2020)

Client Details		Sample Details		
Name	M/s. SHREE RA	M/s. SHREE RAIPUR CEMENT PLANT		GCI/V/20/L4/SSP/WW1
NGINE .				STP-1 OUTLET (Nr. Packing Area)
		Shree Cemient Ltd).	Quantity	1000 ml
Address	Village -Khopradih, Dist: Ralada Raze		Date of Sampling	24/12/2020
Sampling	Sampling Done By GCI Repre		Date of Sample	00.110.000.00
Analysis Starts on Analysis Completion On		28/12/2020	Received	28/12/2020
		02/01/2021	Sampling Method	APHA 1060

WASTE WATER ANALYSIS RESULTS

Sr. No,	Parameters	Unit	Results	Prescribed Limits	Reference Method
1.	На	سلد	8.1	6.5 - 9.0	APHA 4500 H*
2.	Total Suspended Solids (TSS)	mg/L	40	100	APHA 2540 D
3.	Biochemical Oxygen Demand (BOD)	mg/L	23.	30	APHA 5210
4.	Chemical Oxygen Demand (COD)	mg/L	120	250	APHA 5220
5.	Oil & Grease	mg/L	0.4	10	APHA 5220



Analysis is subject to the condition in which the sample is received at our Laboratory.
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CORP. OFFICE & : Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Vadodara - 390 021 (Gujarat), INDIA. R & D Tel.: +91 - 265 - 2371269 Cell: +91 93285 83836 Email: info@greencircleinc.com Website: www.greencircleinc.com



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Report No:-GCI/V/LAB/EM-G0121/19-SP/19-20/December -00/0400

Date: 02/01/2021

ANALYSIS REPORT (For the Month of December- 2020)

Client Details		Sample Details			
	M/S SHREE PAL	PUR CEMENT PLANT	Sample Code	GCI/V/20/L4/WW2	
Name			Location	STP-2 OUTLET (Nr. CCR Building)	
	Iress (A Unit of M/s.Shree Cement Ltd), Village – Khapradih, Dist:Balada Bazar- Bhatapara, Raipur, Chattisgarh- 492001		Quantity	3000 ml	
Address			Date of Sampling	24/12/2020	
Sampling	Done By	GCI Representative			
Analysis Starts on 28/12		28/12/2020	Date of Sample Received	28/12/2020	
Analysis Completion On 02/01/2021		02/01/2021	Sampling Method	APHA 1060	

WASTE WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Prescribed Limits	Reference Method
۱.	На	-	7.97	6.5 - 9.0	APHA 4500 H*
2.	Total Suspended Solids (TSS)	mg/L	30	100	APHA 2540 D
3.	Biochemical Oxygen Demand (BOD)	mg/L	20	30	APHA 5210
4.	Chemical Oxygen Demand (COD)	mg/L	130	250	APHA 5220
5.	Oil & Grease	mg/L	0.4	10	APHA 5220

Authorized Signatory

- Analysis is subject to the condition in which the sample is received at our Laboratory.
- Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission.
 Sample will be retained till one month from the date of sampling.



CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.

Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) and ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, CIN : U74999MP2020PTC052747

TEST REPORT

Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village -Khapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No: CES/Lab/20 Dispatch No.: 185 Issue Date : 20.01.2021	-21//85
Qty : 1 No. x 1 liter	Date of Collection	: 13.01.2021
Method of test : APHA 23rd edition	Date of Receipt	: 16.01.2021
Packing :- Plastic bottle	Period of testing	:16.01.2021 to 20.01,2021
Sample Condition at receipt: Ok	Method of sampling	: APHA 1060
Sample Discipline: Chemical Testing Sub Group: Waste Water	Sample tested as received	: OK
Sample collected by: Gatih Laboratories	Page no.	:1 of 3

ST. No	Test Parameters	Unit	Method No.	Prescribed Limits	(Result) STP-1 Outlet (Nr. Packing Area)
1	рН	20	4500 H+B	6.5 - 9.0	8.20
2	Total Suspended Solid	mg/lit	2540 D	100	40.00
3	COD	mg/lit	5220 B	250	114.00
4	BDD (3 day 27degree)	mg/lit	5210	30	22.00
5	Oil & Grease	mg/lit	5520 B	10	3.00
6	Fecal coliform (FC)	MPN/100 ml	9221F	<1000	<100.00

For CES Analytical and Research Services [1] Pvt. Ltd

Signatory Autho

#The Results relate only to the sample tested/Sampled

42, 48, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510

Email: cesanalytical@gmail.com, creativelab.bpl@gmail.com, Websearch : www.creativeenviroservices.com



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CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.

Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) and ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, CIN : U74999MP2020PTC052747

TEST REPORT

Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village -Khapradih, Dist.: Baloda Bazar- Bhatapara, Raipur, Chattisgarh-493332.	Test Report No: CES/Lab/ Dispatch No.: 185 Issue Date : 20.01.2021 Client Ref: Nil Date : Nil	20-21/185
Qty : 1 No. x 1 liter	Date of Collection	Lan
Method of test : APHA 23rd edition		: 13.01.2021
Packing :- Plastic bottle	Date of Receipt	: 16.01.2021
Sample Condition at receipt: Ok	Period of testing	
Sample Dissister at receipt: Ok	Method of sampling	: 16.01.2021 to 20.01.2021
Sample Discipline: Chemical Testing		: APHA 1060
sub Group: Waste Water	Sample tested as received	: OK
Sample collected by: Gatih Consultancy		
- se adam consultancy	Page no.	:2 of 3

Sr,	Test Parameters	Unit	Method No.		
No 1	рН		MECOOD NO.	Prescribed Limits	(Result) STP-2 Outlet
2			4500 H+B	the second se	(Nr. CCR Building)
3	Total Suspended Solid COD	0/ 110	2540 D	6.5 - 9.0	7.90
F	BOD (3 day 27degree)	mg/lit	5220 B	100 250	33.00
5	Oil & Grease		5210	30	108.00
	Banal In	mg/lit	5520 B	10	18.00
	_ recar competin (rc)	MPN/100 ml	9221F	<1000	0.40
				41000	<100

For CES Analytical and Research Services [1] Pvt. Ltd And Signatory

#The Results relate only to the sample tested/Sampled

42, 48, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Guimohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510

Email: cesanalylical@gmail.com, creativelab.bpl@gmail.com, Websearch : www.creativeserch

Note:



CES ANALYTICAL AND RESEARCH SERVICES (1) PVT. LTD.

Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) and ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, CIN : U74999MP2020PTC052747

TEST REPORT

Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), VillageKhapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No: CES/Lab/2 Dispatch No.: Issue Date : 27.02.2021	20-21//84
Qty : 1 No. x 1 liter	Date of Collection	: 19.02.2021
Method of test : APHA 23rd edition		
Packing Plastic bottle	Date of Receipt	: 22.02.2021
Sample Condition at receipt: Ok	Period of testing	: 22.02.2021 to 27.02.2021
Sample Condition at receipt: OK	Method of sampling	: APHA 1060
Sample Discipline: Chemical Testing Sub Group: Waste Water	Sample tested as received	: OK
Sample collected by: Gatih Laboratories	Page no.	:1 of 3

Sr. No	Test Parameters	Unit	Method No.	Prescribed Limits	(Result) STP-1 Outlet
_	pH	Daple-	4500 H+B	6.5 - 9.0	(Nr. Packing Area)
2	Total Suspended Solid	mg/lit	2540 D		8.00
3	COD	-Title		100	38.00
_		mg/lit	5220 B	250	110.00
4	BOD (3 day 27degree)	mg/lit	5210	10. 2 M	110.00
;				30	20.00
·	Oil & Grease	mg/lit	5520 B	10	
5	Fecal coliform (FC)	MDN /100		10	2.00
		MPN/100 mJ	9221F	<1000	<100.00

For CES Analytical and Research Services (I) Pvt. Ltd Auth Signatory

#The Results relate only to the sample tested/Sampled

42, 48, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510

Email: cesanalytical@gmail.com, creativelab.bpl@omail.com, Websearch - wraw creative and income income



CES ANALYTICAL AND RESEARCH SERVICES (1) PVT. LTD.

Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) and ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, CIN : U74999MP2020PTC052747

TEST REPORT

Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village -Khapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	Test Report No: CES/Lab/2 Dispatch No.: Issue Date : 27.02.2021	0-21/ /84
Qty : 1 No. x 1 liter	Date of Collection	: 19.02.2021
Method of test : APHA 23rd edition	Date of Receipt	: 22.02.2021
Packing :- Plastic bottle	Period of testing	: 22.02.2021 to 27.02.2021
Sample Condition at receipt: Ok	Method of sampling	: APHA 1060
Sample Discipline: Chemical Testing Sub Group: Waste Water	Sample tested as received	: OK
Sample collected by: Gatih Laboratories	Page no.	: 2 of 3

Sr. No	Test Parameters	Unit	Method No.	Prescribed Limits	(Result) STP-2 Outlet (Nr. CCR Building)
1	pH	-	4500 H+B	6.5 - 9.0	7.80
2	Total Suspended Solid	mg/lit	2540 D	100	
3	COD	mg/lit	5220 B		32.00
4	BOD (3 day 27degree)		The second se	250	101.00
		mg/lit	5210	30	18.00
S	Oil & Grease	mg/lit	5520 B	10	and the second se
6	Fecal coliform (FC)	MPN/100 ml			3.00
	(IC)	MILIN/TOD IIII	9221F	<1000	<100

For CES Analytical and Research Services (]) Pvt. Ltd Autho Signatory

#The Results relate only to the sample tested/Sampled

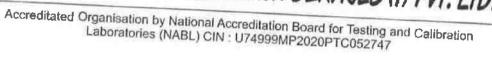
42, 48, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510

Email: cesarialytical@gmail.com, creativelab.bol@umail.com. Websearch * www.creativeacourtecourt



1.

CES ANALYTICAL AND RESEARCH SERVICES (1) PVT. LTD.





TEST REPORT

Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), Village - Khapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	ULR No: TC6872210000000125 Dispatch No: 2.66 Issue Date : 29.03.2021 Client Ref: Nil Date : Nil		
Qty : 1 No. x 1 liter	Date of Collection	1	
Method of test : APHA 23rd edition		: 20.03.2021	
Packing :- Plastic bottle	Date of Receipt	: 23.03.2021	
Sample Condition at receipt: Ok	Period of testing	: 23.03.2021 to 29.03.2021	
Sample Dissiply	Method of sampling	: IS:3025	
Sample Discipline: Chemical Testing Sub Group: Waste Water	Sample tested as received	OK	
Sample collected by: Gatih Laboratories	the second se		
No. of Sample - 02	Page no.	: 2 of 2	
or omapic . 02	Serial No. Of Sample	125/2	

Sr. No	Test Parameters	Unit	Method No.	Prescribed Limits	(Result) STP-2 Outlet
1	pH	-	4500 H+B		(Nr. CCR Building)
2	Total Suspended Solid	mg/lit		6.5 - 9.0	7.77
3	COD		2540 D	100	
4	BOD (3 day 27degree)	mg/lit	5220 B	250	8.00
5	Oil & Ca	mg/lit	5210	30	20.00
	Oil & Grease	mg/lit	5520 B		2.00
			00200	10	<2.00

For CES Analytical and Research Services (1) Pvt. Ltd

Authorized Signatory

#The Results relate only to the sample tested/Sampled

NEELAM UPADHYAY TECHNICAL MANAGER

42, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510, Mobile : 9425009319

Note:



CES ANALYTICAL AND RESEARCH SERVICES (1) PVT. LTD.



Accreditated Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



TEST REPORT

Name & Address of the Customer To, M/s. SHREE RAIPUR CEMENT PLANT (A Unit of M/s. Shree Cement Ltd), VillageKhapradih, Dist.: Baloda Bazar- Bhatapara, Chhattisgarh-493332.	ULR No: TC687221000000125 Dispatch No: 2.64 Issue Date : 29.03.2021 Client Ref: Nil Date : Nil		
Qty : 1 No. x 1 liter	Date of Collection	: 20.03.2021	
Method of test : APHA 23rd edition			
Packing :- Plastic bottle	Date of Receipt	: 23.03.2021	
Sample Condition at receipt: Ok	Period of testing	: 23.03.2021 to 29.03.2021	
	Method of sampling	: 15:3025	
Sample Discipline: Chemical Testing Sub Group: Waste Water	Sample tested as received	IOK	
Sample collected by: Gatih Laboratories	Page no.	1. 6	
No. of Sample - 02		:1 of 2	
A A A A A A A A A A A A A A A A A A A	Serial No. Of Sample	125/1	

Sr. No	Test Parameters	Unit	Method No.	Prescribed Limits	(Result) STP-1 Outlet
1	PH	+	4500 H+B	65.00	(Nr. Packing Area)
2	Total Suspended Solid	mg/lit	2540 D	6.5 - 9.0	7.05
3	COD		Contraction of the second s	100	18.00
	BOD (2 day 272	mg/lit	5220 B	250	and the second se
	BOD (3 day 27degree)	mg/lit	5210	30	100.00
	Oil & Grease	mg/lit	5520 B		11.00
		Are	MARA D	10	<2.00

For CES Analytical and Research Services,(I) Pvt. Ltd

#The Results relate only to the sample tested Sampled

NEELAM UPADHYAY

Authorized Signatory

42. Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.) Telephone : 0755-4299319, Fax : 0755-4243510, Mobile : 9425009319 Annexure-10

Shree Raipur Cement Plant

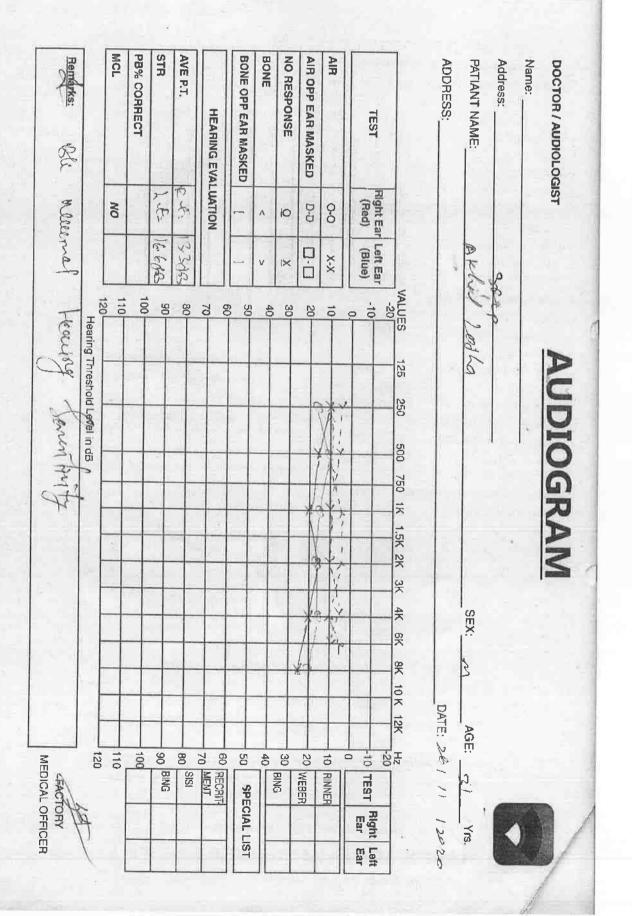
(A Unit of Shree Cement Ltd)

Ambient Noise monitoring report

Prescribed Limit - Day Time - 75 dB(A), Night Time - 70 dB(A)

Ĕ	Location	AAQM5 Bharua	AAQMS-1(Near Bharuadih) (SE)	AAQMS Semara	AAQMS-2 (Near Semaradih) (NE)	AAQMS-3 (I SI	AAQMS-3 (Near RMS) (SE)	AAQMS Kharpra	AAQMS-4 (Near Kharpradih) (SW)
Σ	Month	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
0	Oct-20	57	43	58	44	56	41	59	40
z	Nov-20	59	44	57	42	61	44	58	42
	Dec-20	63	46	60	40	59	42	61	45
	Jan-21	61	45	53	37	60	46	57	43
-	Feb-21	59	40	55	40	57	43	63	40
2	Mar-21	57	42	60	41	62	48	63	47

ANNEXURE-11



SHREE RAIPUR CEMENT PLANT

(A UNIT OF SHREE CEMENT LTD)

KHAPRADIH DIST BALODABAZAR -BHATAPARA (C.G.)

Date :- 26.11.2020

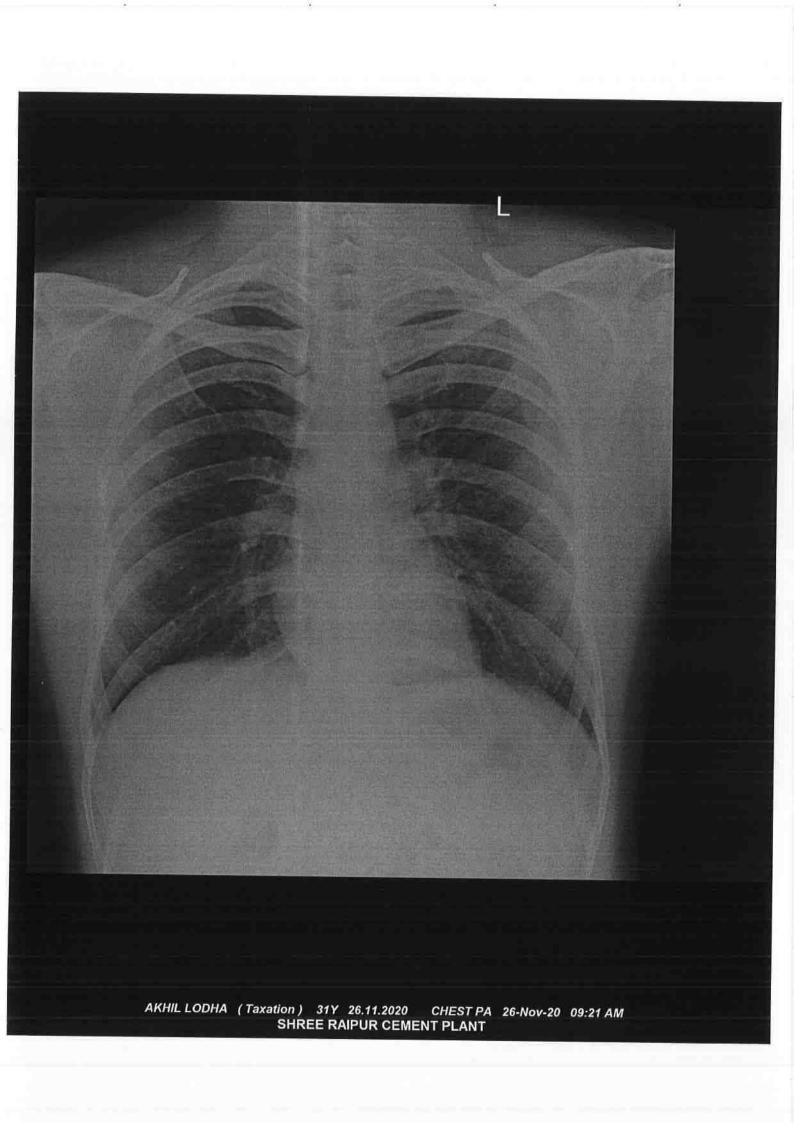
Emp. / CLC	Code :			
PATIENT N	AME :-	******	MR.	AKHIL LODHA
AGE/SEX	:-		31	YRS /MALE

X-RAY CHEST PA VIEW

- Both the lung fields are clear
- Trachea central in position
- Both costo-phrenic angles are clear
- > The cardiac shadow is within normal limits
- > The bony thorax is normal

OPINION:- NORMAL STUDY

Santosh Signature: Kumar Digitally signed by Santosh Kumar Date: 2021.05,04 15:17:18 +05'30'



	ward No.: Digitally signed by Santosh Kumar Date: 2021.02.23 12:58:03 +05'30' d Report.	- And An				VMV		NUN	2020 09:41 Smart ECG Viewer V2.43
ļ.	sh ar	- An-	2 P			VIV	MAN	Mary	Exam :26/11/2020 13:14 Print :26/11/2020 09:41
SHREE RAIPUR CEMENT PLANT 12 LEAD ECG REPORT	Diagnosis Information: 800: Sinus Rhythm 131: Low Voltage(Lir	IN IN IN IN	V Man Mary	V M En M	V M J MAN	V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-	Menter 100		Exam :26
SHR Akhil Lodha (14214) Male 31 Years	m is 00 ms /41 deg. /0.385 mV		[][JLANAAA		avr avr] avr www.		25mm/s 10mm/mV 0.05-35Hz AC50

		Annexure	e-12
_	Shree Raipur Cement Plant		
	(A unit of Shree Cement Limited), Khapradih, Distt- Balodabazar		
	CSR Work Done (April 2020 to March 2021)		
S No	Particulars of CSR activity undertaken	Expenditure Rupees)	(in
A	Eradicating hunger, poverty and malnutrition, promoting preventive health care and sanitation and making available safe drinking water & Expenses held for Covid-19 refief	1,03,57,582	
В	Promoting education, including special education and employment enhancing vocation skills specially among children, women, elderly and the differently abled and livelihood enhancement projects (inc. consumer education and awareness)	2,24,308	
с	Promoting gender equality, empowering women, setting up homes and hostels for women and orphans; setting up old age homes, day care centers and such other facilities for senior citizens and measures for reducing inequalities faced by socially and economically backward groups	6,44,049	
D	Ensuing environmental sustainability, ecological balance, protection of flora and fauna, animal welfare, agroforestry, conservation of natural resources and maintaining quality of soil, air and water	5,18,794	
Ē	Protection of national heritage, art and culture including restoration of buildings and: sites of historical importance and works of art; setting up public libraries; promotion and development of traditional arts and handicrafts;	5,27,400	
F	Training to promote rural sports, nationally recognized sports, Paralympic sports and Olympic sports	16,59,440	47
G	Rural development projects	66,00,005	-
н	Overheads related to CSR activities (maximum upto 5% of total CSR expenses)	25,46,300	
_	TOTAL EXPENDITURE	2,30,77,878	



SHREE CEMENT LIMITED

BANGUR NAGAR, BEAWAR, RAJASTHAN

ENVIRONMENT POLICY

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

Signature

(P.N.Chhangani) Whole Time Director



ENVIRONMENT MANAGEMENT SYSTEM

1. LEGAL & OTHER REQUIREMENTS

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

2. OPERATIONAL CONTROL PROCEDURES

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

aden Signature_

(P.N.Chhangani) Whole Time Director



b. Relevant Operation Control Measures

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

3. ROLES & RESPONSIBILITIES

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

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

she Signature /

(P.N.Chhangani) Whole Time Director

SI Shree Cement

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

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

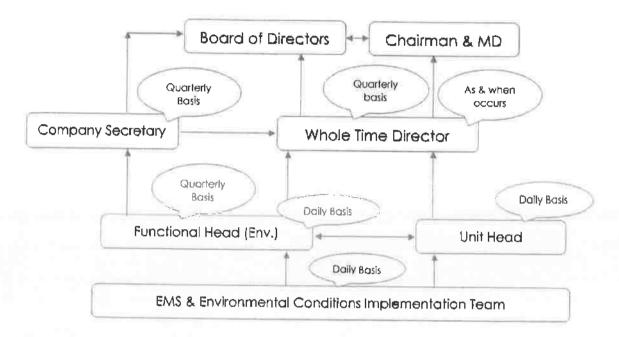
d. EMS / Environmental Conditions Implementation Team- It'll be comprising of multi-disciplinary professionals from all departments (civil, electrical, mechanical, Instrument, horticulture and environment) who'll prepare the action plan for implementation of conditions of environment clearance, consent,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

Signature_

(P.N.Chhangani) Whole Time Director







4. COMMUNICATION

a. Communication with Board of Directors

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

b. Internal Communication

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

le Signature_

(P.N.Chhangani) Whole Time Director



c. Participation and consultation

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

d. External Communication

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

e. List of Company Management Team

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

Signature_

(P. N. Chhangani) Whole Time Director

Annexure-14

Occupational Department Health **Corporate Environment Head** Department Safety Management Environment Department Whole Time Director Bag Filter, ESP, ETP maintenance Maintenance Operation & Department Housekeeping & Greenbelt Department Personal & Admin Plant Head) 5 Department CSR

Department

Department

Structure of Environment Management Cell

Annexure-15

Environment Expenditure (Ap	l-2020 to March-2021)		
Description	Amount (in Rs)		
Sewage treatment plant	590978		
Water treatment plant	2881691		
Technical Consultancy charges for Env. Monitoring	2856631		
Env. Monitoring (Ambient, Stack emission, Ground Water & STP water etc.)	302932		
Plantation (Cement plant & Mines area)	3383308		
Plantation through CSR	5187 94		
House keeping & Vacuum Sweeping m/c	37083399		
Total	47617734		





Photo no. 1 - Showing CEMS installed at Raw Mill Kiln Stack Unit-1

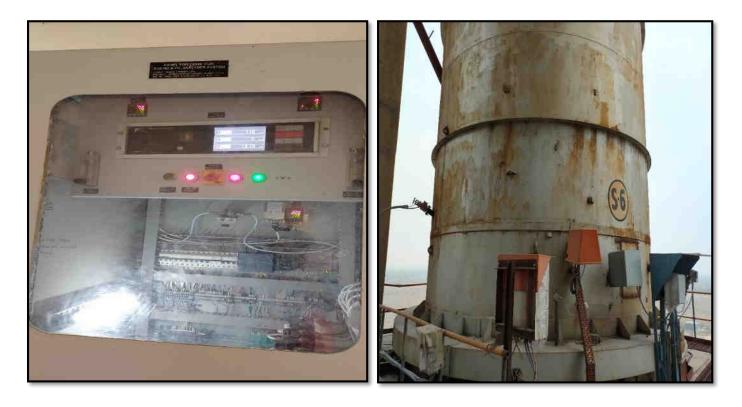


Photo no. 2 - Showing CEMS installed at Raw Mill Kiln Stack Unit-2



Photo no. 3 - Showing CEMS installed at Captive Power Plant



Photo no. 4 - Showing CAAQMS- 1

Photo no. 5 – Showing CAAQMS- 2

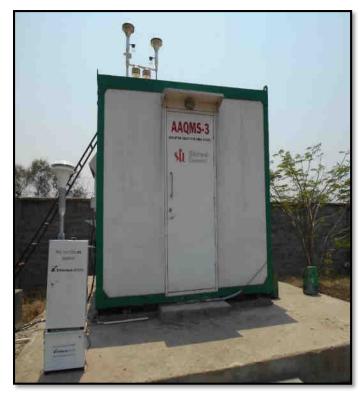


Photo no. 6 – Showing CAAQMS- 3



Photo no. 7 – Showing CAAQMS- 4



Photo no. 8 – Showing Sweeping Machine



Photo no. 9 – Showing Sweeping Machine

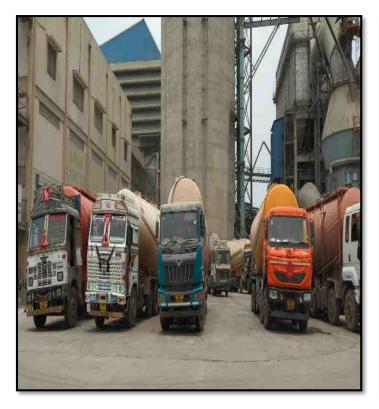


Photo no. 10 – Transportation through bulkers



Photo no. 11. – Tarpaulin covered trucks

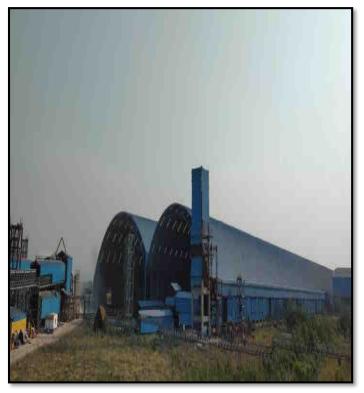


Photo no. 12 – Covered Shed for stock yard

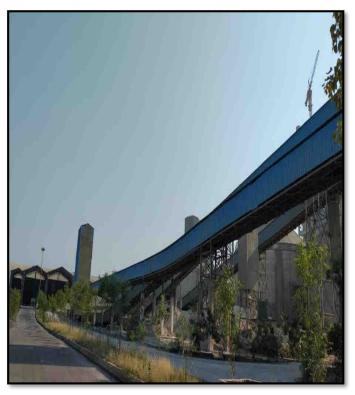


Photo no. 13 – Covered conveyor belt

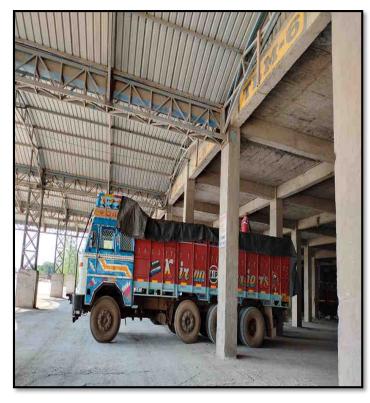


Photo no. 14 – Trucks covered with tarpaulin

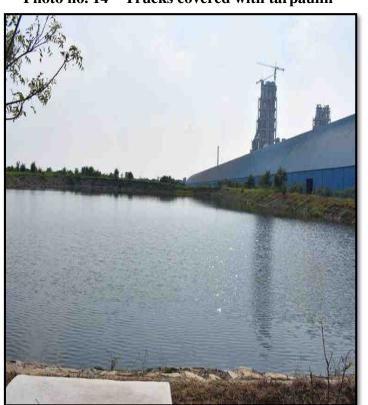




Photo no. 15 – Photo showing STP

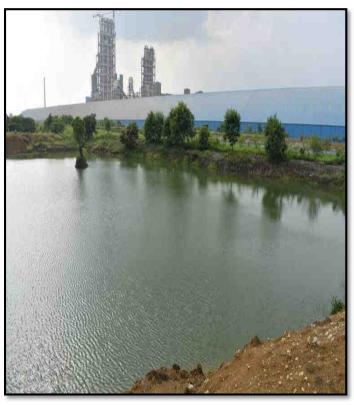


Photo no. 16 – Rain water harvesting pond-1

Photo no. 17 – Rain water harvesting pond-2



Photo no. 18 – Showing digital flow meter



Photo no. 19 – Showing digital flow meter

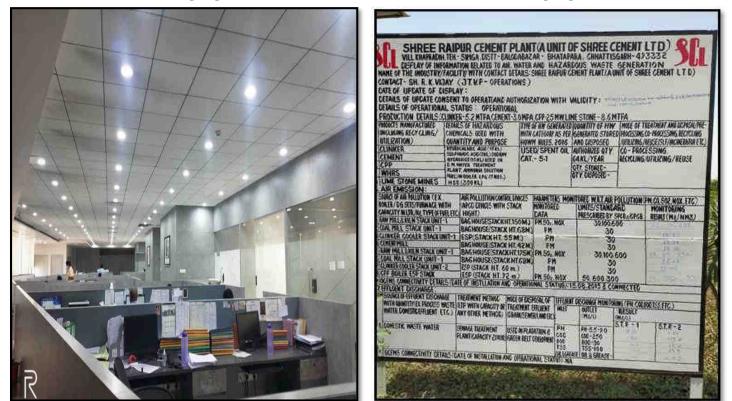


Photo no.20 Showing LED lighting fixtures office areas

Photo no. 21 – Showing display board