

Letter No: GSCL/EHS/2022-23/33

Dated: 30.11,2022

To,

The Ministry of Environment & Forests & Climate Change, North Eastern Regional Office (NEZ), Law-u-sib, Lumbatngen, Near MTC Workshop, Near NTC Workshop, Shillong, Meghalaya-793021.

Sub: Six Monthly Compliance of Environment Clearance Letter of M/s. Goldstone Cements Ltd, Vill: Musiang Lamare (old), Khliehriat, East Jaintia Hills, Meghalaya-793200

Ref: Environment Clearance letter No:- J-11011/851/2008-IA II(I) dated 30.09.2010

Dear Sir,

With the matter as cited in the subject, we would like to submit the Half Yearly EC Compliance report for the period 01.04.2022 to 30.09.2022 on Environmental Stipulations for our Cement Plant along with Captive Power Plant located at Vill: Musiang Lamare (old), Khliehriat, Dist: East Jaintia Hills, Meghalaya -793200.

All annexures are enclosed as mentioned in compliance report for your kind reference.

Thanking You,

Yours faithfully

For Goldstone Cements Ltd.

Authorised Signatory

Encl: As mentioned above.

CC: 1. Regional Director, Central Pollution Control Board, Regional Directorate-North East, Lower Motinagar, Shillong, Meghalaya-793014.

2. Member Secretary, Meghalaya State pollution Control Board, "AR

Lumpyngngad, Shillong, Meghalaya-793014.

dstone Cements Limited

Village Musiang Lamare(Old), Khliehriat, East Jaintia Hills, Meghalaya - 793200 5A, 5th Floor, Shine Towers, 57 Sati Jaymati Road Arya Chowk, Rehabari, Guwahati, Assam 781008 P +91-361-2607071/72

510, 5th Floor, Diamond Heritage 16, Strand Road, Kolkata - 700001 P +91-33-66079604

COMPLIANCE REPORT (HALF YEARLY) FROM 1st APRIL 2022 TO 30TH SEPTEMBER 2022 ON ENVIRONMENTAL STIPULATIONS OF M/S. GOLDSTONE CEMENTS LTD – ENVIRONMENTAL CLEARENCE VIDE MOEF LETTER NO. J-11011/851/2008-IA II (I), DATED 30.09.2010.

SL	No. Facility	Total Capacity as per EC	Total installe	ed capacity as on date	Percentage of capacity installed against total capacity as per EC	
1	Clinker Kiln	1.65 MTPA	(0.56 MTPA	34 %	
2	Cement Grinding Facility 2.54 MTPA			0.88 MTPA	34 %	
3	Captive Power Plant FBC	2 X 20 MW		10 MW	25 %	
SL. NO	CONDITIONS				COMPLIANCE	
	A. SPECIFIC CONDI	TIONS				
i	Continuous stack monitor emissions from all the stack limit of SPM shall be contra adequate air pollution Cont (ESP) to clinker cooler, bag coal mill and cement mill. Le control NOx emissions.	ss shall be provided. After colled within 50 mg/Nm ³ arol system. Electrostatic house raw mill/kiln and l	r expansion, by installing precipitators bag filters to	data is being transferred to CPCB & MSPCB. •ESP (Electrostatic Precipitators) for Clinker cooler, Bag house/Bag filters for Mill / Coal Mill & other pollution control equipments were already installed in		
ii	Possibilities shall be explore gases generated from the (WHRB). A feasibility report the ministry and its Regional from the date of issue of the	kiln in waste heat recort shall be prepared and all office at Shillong within	overy boiler submitted to	drying the moisture in raw mill & cement mill. Similarly, waste heat of Kiln		
iii	The National Ambient Ai Ministry vide G.S.R. No. 82 be followed.	r Quality Standards iss 26(E) dated 16 th Novembe	ued by the er 2009 shall	The same is being followed during operation of plant. Ambient air qualimonitoring is being done as per standards. Ambient air quality parameters are found to be within the limit for all the parameter. (Details attached in Annexure-		

iv	practice issued by the CPCB in this regard should be followed.	Full time water tanker is being deployed in the plant for water sprinkling on all roads as shown in <u>Annexure:2b</u> Guideline / Code of practice issued by the CPCB is being followed during operation of plant. Regular monitoring for control of secondary fugitive emission under prescribed limit is being done. (Details attached in Annexure-1)
v	Effort shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and shall not be over loaded. The company shall have separate truck parking area. Vehicular emissions should be regularly monitored.	Raw Material and end products are transported keeping in consideration that surrounding environment and agriculture land is protected. There is separate designated parking space for truck parking. All the raw materials including fly ash is being transported in the closed containers within load capacity. It is ensured that without valid PUC no vehicle is allowed in plant premises. Few certificates are enclosed for your reference. (Details attached in Annexure-3)
vi	Total water requirement for cement and captive power plant shall not exceed 2,370 m ³ / day. All the treated wastewater shall be recycled and reused in the process and / or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'Zero' discharge should be adopted.	Total water requirement for Cement and Captive Power Plant at 2370 M³/ Day was assessed based upon total EC approved capacity. However, the actual installed capacity of Clinker Kiln & Cement Grinding is still at as 34% only of EC approved capacity. Similarly, actual installed capacity of Captive Power Plant is 25% of EC approved capacity. Hence, the proportionate water requirement is close to 700 M³ (approx.) / per day only, which is much lower than 2370 M³ / day assessed on EC approved capacity of production. Since the total water requirement itself is much lower that is 700 - 800 M³ / Day and therefore, the quantum of treated waste water is also reduced. To handle this lower quantum of waste water, plant has been designed as per close circuit arrangements for cooling water. Company has adopted "ZERO discharge" of waste water. All the treated wastewater is reused in the process and for dust suppression on roads.
vii	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	We have constructed a reservoir of 1 lac liter capacity in the west side. (Photograph are enclosed in Annexure:4)

		water required for the
viii	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional office at Shillong, SPCB and CPCB.	We are not generating any process effluent as the process water required for the cooling of bearing in cement plant is given treatment of cooling and sedimentation and entirely recycled. Effluent from DM plant is treated in a neutralization pit and treated water is reused entirely for dust suppression on haul roads. Regular monitoring is carried out of influent & effluent surface, sub-surface and treated waste water test results meet the norms prescribed by SPCB and same is submitted in SPCB & CPCB. (Details attached in Annexure-1)
ix	All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers / re-processors only.	All the dust collected through pollution control equipment is either raw material or cement dust. Those are collected and recycled in a closed loop. Spent oil and batteries are sold to authorized recyclers.
x	All the fly ash shall be utilized as per fly ash Notification, 1999 subsequently amended in 2003. Effort shall be made to use fly ash maximum in making Pozzolana Portland Cement (PPC).	Pozzolana Portland Cement (PPC)
xi	Effort shall be made to use low-grade lime, more fly ash and solid waste in the cement manufacturing.	Cement (PPC). We are manufacturing more of PPC over OPC.
xii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision should be made accordingly.	The generation of high calorific hazardous waste inside our plant is very insignificant except a very small quantity of used lubricants and the same is incinerated in our Clinker Kiln.
viii	As proposed, green belt shall be developed in at least 33% area in around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	Against EC Approved Capacity of 1.65 MTPA of Clinker Kiln, 2.54 MTPA of Cement Grinding Facility and 40 MW of Captive Power Plant, the present installed capacity as mentioned above is only 34% of approved EC Capacity in case of Clinker Kiln and Cement Grinding and 25% in case of Captive Power Plant. Our Plant area of Land is 51.411 Ha and as per stipulated condition in EC we have to develop 33% area in and around the cement plant. However, with much lower installed capacity as compared to EC Approved capacity, we have 15.858 Ha of green belt since inception. 0.507 ha was further developed. Thus against 33% of required green belt development 31.83% area of total plant land is already covered under green belt. Balance and required plantation shall be done in phase manner. Few photographs are attached herewith and marked as <i>Annexure-5</i>

xiv	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants should be implemented.	All recommendations were considered during the design of plant and machineries and as such all the issues in this regard are complied with.
xv	All the commitments made to the public during the Public Hearing / Public consultation meeting held on 27th November 2009 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional office at Shillong.	Company has given preference to local people for employment in company. Company has conducted social development activities in nearby vicinity areas as health facilities, ambulance facilities, water facilities, free and subsidized cements for constructing the roads, churches, schools, community halls, cultural programmes and etc.
xvi	At least 5% of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional office at Shillong. Implementation of such program shall be ensured accordingly in a time bound manner.	We have commenced commercial production during FY 2016 and have been incurring losses till FY 17-18. In very competitive marketing scenario and everincreasing input costs of Raw material, fuel (HSD & coal) and other materials & services, we could somehow manage to keep the industry up and running with the objective that 1500 families dependent directly or indirectly on this project could survive. You are kindly aware that we are a new unit with only 5 years of existence since the commencement of commercial operations. The unit faced almost 2 years of pandemic time. However, under such conditions also our efforts were to keep the operations of plant as less impacted as could have been possible during the unfortunate pandemic period so that we are able to meet the fixed expenditure of salary, wages & welfare of employees. We are pleased to report that despite all challenges with two loss making years followed by two pandemic years, during total 6 years of life cycle of the unit till now post commercial operations, we could finally survive. During these trying times also, we have been carrying out welfare activities in the area of assisting the village school, contribution for COVID 19 PM care fund, contribution for COVID 19 Meghalaya CM care fund, distribution of Covid kits, contribution to local village areas & Elakas, providing assistance & support to villagers in rural housing development. Attached please find the expenditure incurred till now in the area of CSR and our further plan in line with stipulated EC condition marked <i>Annexure-6</i> .

xvi i	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Phase-1 of Project has already been completed. During Phase-1 project, all such facilities were ensured. Whenever next phase of project will commence in future same shall again be adhered to.
	B. GENERAL CONDITIONS	
i	The project authorities must strictly adhere to the stipulations made by the Meghalaya State Pollution Control Board and the State Government.	Stipulations mandated in the CTO are being adhered to.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	No expansion or modifications beyond EC approved capacity shall be undertaken without prior approval of MoEF.
iii	The gaseous emissions from various process units shall confirm to the load / mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Our unit with sophisticated technologies is able to meet with the new standards o emission for cement industries, including load-based standards.
iv	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional office at Shillong and the SPCB/CPCB once in six months.	Four numbers of Ambient Air Quality Monitoring Stations have been established with consultation of Meghalaya State Pollution Control Board. Monthly monitoring of ambient air quality is being carried out in four locations. Online emission monitoring system is installed in all the major stacks. Data on ambient air quality and stack emission are submitted to MOEF&CC, CPCB and MSPCB once in six months. (Details are attached in Annexure-1)
v	Industrial waste water shall be properly collected, treated so as to confirm to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	Treated wastewater from DM plant is used entirely in dust suppression measures. Process water requires for cooling of bearings in the cement plant and it is cooled, treated and recycled fully.

vi	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Care has been taken during project planning and ordering of equipment. Noise level is monitored and being found within the prescribed limit. (Details are attached in Annexure-1)
vii	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of our workers is conducted as per Factories Act. A health care center is already available in our Plant Campus. Trained staff and Doctor are available with essential medicines for health surveillance on regular basis.
viii	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have already constructed the roof top rainwater ground water recharge system in CPP TG Building & Colony buildings area. Rainwater harvesting system from the roof tops is also available in CPP water reservoir. Photographs area attached and marked <i>Annexure-7</i>
ix	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We are working on the implementation of the conditions given in EIA/EMP. We are sponsoring for community development programmes. We are providing the drinking water facility in nearby village. Health camps & eye check up camps are conducted in surrounding villages. We are providing free medicines, free ambulance services to local community.
X	As proposed, Rs 25 Crores and Rs 1.80 Crores shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of environment & Forests as well as the state government. An implementing all the conditions stipulated herein shall be submitted to the Regional office of the Ministry at Shillong. The Funds so provided shall not be diverted for any other purpose.	Exhaustive environmental protection measures have been taken by installing equipments approx. 26.01 Cr as capital cost as per list enclosed. We have invested approx. Rs.1.79 Cr amount towards recurring cost (period: 1st April 2022 - 30th September 2022) for environment pollution control measures (Details are attached as per Annexure-8)
xi	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Copy was already submitted to the MOEF &CC.



xii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Shillong. The respective Zonal office of CPCB and the SPCB. The criteria pollutant levels namely; PM 10, SO ₂ , NOx (ambient levels as well as stack emissions) or critical sectoral parameters. Indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Environmental Parameters display board and LED Display board have been provided near company main gate. (Photographs are enclosed in annexure-9) The EC and Six Monthly EC compliance reports are uploaded in our company website http://gscl.blacktigerso.com/
xiii	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional office of MOEF, the respective Zonal office of CPCB and the SPCB. The Regional office of this Ministry at Shillong / CPCB /SPCB shall monitor the stipulated conditions.	Being Complied
xiv	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional office of the MOEF at Shillong by e-mail.	Being complied. Form-V (2021-22) has been submitted in Meghalaya State Pollution Control Board. Same is also uploaded in our company website http://gscl.blacktigerso.com/
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Shillong.	Same was implemented at the time of Phase-1 Project. Phase-1 project has been partially completed.

xvi	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Project Phase-1 has been partially completed complying with stipulated condition.

Amendment in Environmental Clearance conditions for prevention of Acid Mine Drainage (AMD) by virtue of the recommendation of NGT Committee in the matter of threat to life arising out of Coal Mining in South Garo Hills District vs State of Meghalaya & Ors in OA No. 110(THC)/ 2012, OA No. 73/2014, OA No. 13/2014, OA No. 186/2014 and OA No. 287/2017 etc. -reg. F. Order No: J-11011/851/2008-IA. II(I) Dated: 16.10.2020. SL. CONDITIONS NO COMPLIANCE Storage areas / stockpiles for coal in the unit shall be covered and shall have impervious flooring. Garland drains shall be provided around the storage area / Stockpiles to arrest the seepage water We have already started construction of Impervious flooring, garland drains from coal yard. The seepage water thus collected shall be treated surrounding the coal shed and neutralization pit have been taken in plan for to meet industry specific / general discharge norms for water construction and we shall submit the progress in due course. quality as applicable. "In this regard, the compliance status shall be furnished to the Regional Office periodically along with the six monthly compliance report.

For Goldstone Cements Limited.

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Annexure – 1

Environmental Monitoring Reports



No: GSCL/EHS/2022-23/10

Dated: 10.05.2022

To, The Member Secretary, Meghalaya State Pollution Control Board, Arden, Lumpyngngad, Shillong-793014.

Sub: Submission of Monthly Environmental Monitoring Reports - April 2022.

Dear Sir / Madam,

With reference to the subject as cited above, we are herewith submitting Monthly Environmental Monitoring Reports for the month of April 2022.

The test reports are enclosed.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully.

For Goldstone Cements Ltd.

Encl: Environmental Monitoring Reports - April 2022.



Goldstone Cements Limited

CIN No.: U26940ML2007PLC008298



Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/FE-04/01

Date : 10/05/2022

3/FE-04/01 Order No.: FFE/500001077
Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM $(\mu g/m^3)$	Limits (μg/m³)	
01	Fly-ash Storage Section	20.04.2022	862	5000	
02	Coal Storage Section	20.04.2022	631	2000	
03	Limestone Storage Section	21.04.2022	1838	5000	
04	Cement Packing Section	21.04.2022	2127	5000	

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement.

- 2. Results refer only to the particular parameters tested.
- 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs

Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

Date

Order No.: FFE/7500001077

:30/03/2022

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-04/05

Date : 10/05/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-04/05		
02	Date of Sampling	22.04.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Flue Gas Temperature (°C)	64		
06	Exit Velocity of Gas (m/sec)	13.7		
07	Type of Fuel Used	NA*		
	Analysis Resul	lts of Flue Gas		
Sl. No.	Parameter(s)	Result(s) Unit(s) Limit(s)		
i.	Particulate Matter	13 mg/Nm³ 30		

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/SE-04/03 Order No.: FFE/7500001077

Date : 10/05/2022 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-04/03		
02	Date of Sampling	21.04.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Flue Gas Temperature (°C)	218		
06	Exit Velocity of Gas (m/sec)	14.6		
07	Type of Fuel Used	NA*		
	Analysis Resul	lts of Flue Gas		
Sl. No.	Parameter(s)	Result(s) Unit(s) Limit(s)		
i.	Particulate Matter	22 mg/Nm ³ 30		

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Order No.: FFE/7500001077

:30/03/2022

Date

Report No.: ENV/GSCL/22-23/SE-04/02

Date : 10/05/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	01 Test Ref. No.		GSCL/22-23/SE-04/02		
02	Date of Sampling	21.04.2022			
03	Material of Construction		M. S.		
04	Stack Attached To		Coal Mill		
05	Flue Gas Temperature (°C)	51			
06	Exit Velocity of Gas (m/sec)	11.8			
07	Type of Fuel Used	NA*			
	Analysis Resul	ts of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	21 mg/Nm ³ 30		30	
ii.	Sulphur Dioxide (as SO ₂)	237	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	103	mg/Nm³	600	

^{*}NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/SE-04/04 Order No.: FFE/7500001077

Date : 10/04/2022 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-04/04		
02	Date of Sampling		22.04.2022	
03	Material of Construction		Refractory Brick	
04	Stack Attached To	Ca	ptive Power Plant (C	PP)
05	Flue Gas Temperature (°C)	103		
06	Exit Velocity of Gas (m/sec)	5.8		
07	Type of Fuel Used	Coal		
	Analysis Resul	ts of Flue Gas		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	38 mg/Nm³ 50		
ii.	Sulphur Dioxide (as SO ₂)	458 mg/Nm³ 600		
iii.	Oxides of Nitrogen (as NO _x)	211 mg/Nm³ 300		



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Order No.: FFE/7500001077

:30/03/2022

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Report No.: ENV/GSCL/22-23/SE-04/01

Date : 10/05/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-04/01		
02	Date of Sampling		21.04.2022	
03	Material of Construction		M. S.	
04	Stack Attached To		Raw Mill	
05	Flue Gas Temperature (°C)	181		
06	Exit Velocity of Gas (m/sec)	18.2		
07	Type of Fuel Used	NA*		
	Analysis Resul	ts of Flue Gas		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24 mg/Nm³ 30		
ii.	Sulphur Dioxide (as SO ₂)	556 mg/Nm³ 1000		
iii.	Oxides of Nitrogen (as NO _x)	228	mg/Nm³	600

^{*}NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/N-04/01

Date : 10/05/2022

Order No.: FFE/7500001077 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

		Date		time	Night Time	
Sl. No.	Location(s)	Of Measurement	L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Coal Mill	20.04.2022	63.3	75	58.3	70
2	Near CPP Area	20.04.2022	71.4	75	58.9	70
3	Near Coal Storage Yard	21.04.2022	64.6	75	52.5	70
4	Near Raw Mill	21.04.2022	72.2	75	63.9	70
5	Near Cement Mill	21.04.2022	73.4	75	62.7	70
6	HR & Mine's Office	22.04.2022	58.4	75	48.6	70
7	CPP TG Building	22.04.2022	72.7	75	66.3	70



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Report No.: ENV/GSCL/22-23/DW-04/01

Date : 10/05/2022

Order No.: FFE/7500001077 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/22-23/DW-2204/04 Sample Source: Narmada Sadhan Sample Type: Drinking Water

Collected On : 22-04-2022 Received On : 25-04-2022 Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour , Hazen Units, Max	1	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.3	1	5
5.	рН	6.75	6.5 - 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	79	500	2000
7.	Aluminium (as Al), mg/l, Max.	ND	0.03	0.2
8.	Boron (as B), mg/l, Max.	ND	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	31	75	200
10.	Chloride (as Cl), mg/l, Max	7.3	250	1000
11.	Copper (as Cu), mg/l, Max	ND	0.05	1.5
12.	Fluorides (as F), mg/l, Max	ND	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	ND	0.2	1
14.	Iron (as Fe), mg/l, Max	0.014	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	2	30	100
16.	Manganese (as Mn), mg/l, Max	ND	0.1	0.3
17.	Zinc (as Zn), mg/l, Max	ND	5.0	15
18.	Nitrate (as NO₃), mg/l, Max	0.3	45	No Relaxation
19.	Sulfate (as SO ₄), mg/l, Max	ND	200	400
20.	Phenolic Compunds (as C ₆ H ₅ OH), mg/l, Max.	ND	0.001	0.002
				Continued

^{*}Limits as per IS 10500:2012

Analysis Protocol: IS 3025 ND: Not Detected



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Order No.: FFE/7500001077

:30/03/2022

Date

Report No.: ENV/GSCL/22-23/DW-04/01

Date : 10/05/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/22-23/DW-2204/01 Sample Source: Narmada Sadhan Sample Type: Drinking Water

Collected On : 22-04-2022 Received On : 25-04-2022 Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO ₃), mg/l, Max	59	200	600
22.	Total Hardness, (as CaCO ₃), mg/l, Max	33	200	600
23.	Cadmium (as Cd), mg/l, Max.	ND	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	ND	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	ND	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	ND	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	ND	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	ND	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	ND	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	ND	0.01	0.05
31.	Total Chromium, (as Cr), mg/l, Max	ND	0.05	No Relaxation
32.	Faecal Coliforms/ 100 ml	NIL	Absent	Absent
33.	E. Coli / 100 ml	NIL	Absent	Absent
				End of Report

^{*}Limits as per IS 10500:2012

Analysis Protocol: IS 3025 ND: Not Detected

Remarks: Drinking water from the above source is fit for drinking.



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.



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Order No.: FFE/7500001077

Report No.: ENV/GSCL/22-23/WW-04/01

Date : 10/05/2022

Date :30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : GSCL/22-23/WW-2204/01
Sample Type/Source : Waste Water (Treated)/ETP Outlet
Sample Collected By : Representative of ENVIROCON

Sample Collected On : 22.04.2022 Sample Received On : 25.04.2022 Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH		6.88	5.5 - 9.0
2.	Temperature	₀ C	23.8	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	33	100
4.	Biochemical Oxygen Demand	mg/l	19	30
5.	Chemical Oxygen Demand	mg/l	148	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	4.4	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12	100
10.	Free Ammonia (as NH ₃)	mg/l	< 0.01	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/AA-04/01 Order No.: FFE/7500001077

Date : 10/05/2022 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

AMBIENT AIR QUALITY TEST RESULTS

Sl.	SI. No. Limit(s) \downarrow Limit(s) \rightarrow	Date of	PM 2.5 (μg/m³)	PM 10 (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)
No.		Sampling	60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	Near CPP (Water Reservoir)	20.04.2022	28.5	52.3	6.4	8.5
2.	Near CCR (Material Yard)	20.04.2022	32.7	50.6	5.3	9.2
3.	Near Guest House (Yamuna Sadan)	21.04.2022	18.3	33.2	<5.0	<6.0
4.	Residential Colony	21.04.2022	20.4	31.7	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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HILA NA PAOGE

Dated: 16.06.2022

No: GSCL/EHS/2022-23/14

To,
The Member Secretary,
Meghalaya State Pollution Control Board,
Arden, Lumpyngngad.
Shillong-793014.

Sub: Submission of Monthly Environmental Monitoring Reports - May 2022.

Dear Sir / Madam,

With reference to the subject as cited above, we are herewith submitting Monthly Environmental Monitoring Reports for the month of May 2022.

The test reports are enclosed.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully

For Goldstone Cements Ltd.

. /

Encl: Environmental Monitoring Reports - May 2022.



Goldstone Cements Limited

CIN No.: U26940ML2007PLC008298

is Marketing Office



Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435008657, 8876028672

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Report No.: ENV/GSCL/22-23/AA-05/01

:08/06/2022

Order No.: FFE/7500001077

:30/03/2022

Report Issued To:

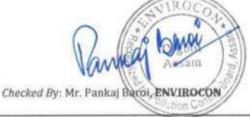
GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

AMBIENT AIR QUALITY TEST RESULTS

SI.	Location(s) 1	Date of	PM 2.5 (μg/m³)	PM 10 (µg/m³)	SO ₂ (μg/m ^γ)	NO ₂ (μg/m ^γ)
No. Limit(s) →	Sampling	60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)	
1.	Near CPP (Water Reservoir)	24.05.2022	27.6	54.5	6.6	8.2
2.	Near CCR (Material Yard)	23.05.2022	30.2	51.6	5.4	8.7
3.	Near Guest House (Yamuna Sadan)	23.05.2022	19.8	30.6	<5.0	<6.0
4.	Residential Colony	24.05.2022	21.3	32.4	<5.0	<6.0

Analysis Protocol: IS 5182



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Report No.: ENV/GSCL/22-23/FE-05/01

:08/06/2022 Date

Order No.: FFE/S00001077 :30/03/2022 Date

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

SL No.	Locations	Date of Sampling	Results for SPM (µg/m³)	Limits (µg/m³)
01	Fly-ash Storage Section	23.05.2022	873	5000
02	Coal Storage Section	23.05.2022	626	2000
03	Limestone Storage Section	24.05.2022	1821	5000
04	Cement Packing Section	24.05.2022	2119	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/SE-05/05

Date : 08/06/2022

Order No.: FFE/7500001077 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	G	GSCL/22-23/SE-05/05			
02	Date of Sampling		24.05.2022			
03	Material of Construction		M. S.			
04	Stack Attached To	Cement Mill				
05	Flue Gas Temperature (°C)	61				
06	Exit Velocity of Gas (m/sec)		13.2			
07	Type of Fuel Used		NA*			
	Analy	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
T/r	Particulate Matter	16	mg/Nm ³	30		

^{*}NA: Not Applicable



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Report No.: ENV/GSCL/22-23/SE-05/03

Date : 08/06/2022

Order No.: FFE/7500001077 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-05/03			
02	Date of Sampling		23.05.2022		
03	Material of Construction	M. S.			
04	Stack Attached To	Cooler E. S. P.			
05	Flue Gas Temperature (°C)	220			
06	Exit Velocity of Gas (m/sec)	14.9			
07	Type of Fuel Used	NA*			
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	24	mg/Nm³	30	

^{*}NA: Not Applicable



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Report No.: ENV/GSCL/22-23/SE-05/01

Date :08/06/2022 Order No.: FFE/7500001077 Date :30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	G	GSCL/22-23/SE-05/01		
02	Date of Sampling		23.05.2022		
03	Material of Construction		M. S.		
04	Stack Attached To		Coal Mill		
05	Flue Gas Temperature (°C)	55			
06	Exit Velocity of Gas (m/sec)		11.3		
07	Type of Fuel Used		NA*		
	Analy	sis Results of Flue Gas			
Sł. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
ù.	Particulate Matter	19	mg/Nm ³	30	
II.	Sulphur Dioxide (as SO ₂)	231	mg/Nm ³	1000	
III.	Oxides of Nitrogen (as NO _x)	106	mg/Nm ³	600	

^{*}NA: Not Applicable



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Report No.: ENV/GSCL/22-23/SE-05/04

Date : 08/06/2022

Order No.: FFE/7500001077 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-05/04			
02	Date of Sampling	24.05.2022			
03	Material of Construction	Refractory Brick			
04	Stack Attached To	Captive Power Plant (CPP)			
05	Flue Gas Temperature (°C)	101			
06	Exit Velocity of Gas (m/sec)	5.2			
07	Type of Fuel Used	Coal			
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i,	Particulate Matter	41	mg/Nm ³	50	
IL	Sulphur Dioxide (as SO ₂)	463	mg/Nm ³	600	
iii.	Oxides of Nitrogen (as NO _x)	217	mg/Nm³	300	



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Report No.: ENV/GSCL/22-23/SE-05/02

:08/06/2022 Date

Order No.: FFE/7500001077 Date

:30/03/2022

Report Issued To:

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Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-05/02				
02	Date of Sampling	23.05,2022				
03	Material of Construction		M. S.			
04	Stack Attached To		Raw Mill			
05	Flue Gas Temperature (°C)	180				
06	Exit Velocity of Gas (m/sec)	19.3				
07	Type of Fuel Used	NA*				
	Analy	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
L.	Particulate Matter	22	22 mg/Nm ³			
IL	Sulphur Dioxide (as SO ₂)	562	mg/Nm³	1000		
iii.	Oxides of Nitrogen (as NO _x)	224	mg/Nm ³	600		

^{*}NA: Not Applicable



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Report No.: ENV/GSCL/22-23/N-05/01

Date : 08/06/2022

Order No.: FFE/7500001077 Date :30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

E-mail: envirocon@rediffmail.com

SI. No.	FRSS - 5700 - 5000	Date Of Measurement	Day time		Night Time	
	Location(s)		L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Coal Mill	23.05.2022	61.7	75	56.8	70
2	Near CPP Area	23.05.2022	69.3	75	58.4	70
3	Near Coal Storage Yard	23.05.2022	63.6	75	51.8	70
4	Near Raw Mill	23.05.2022	70.7	75	64.6	70
5	Near Cement Mill	24.05.2022	71.9	75	63.5	70
6	HR & Mine's Office	24.05.2022	60.6	75	51.7	70
7	CPP TG Building	24.05.2022	71.5	75	64.5	70



NOTE:

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Report No.: ENV/GSCL/22-23/DW-05/01

Date : 08/06/2022

Order No.: FFE/7500001077 Date :30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/22-23/DW-3005/05

Sample Source: Narmada Sadhan

Sample Type: Drinking Water

Collected On : 30-05-2022

Received On : 31-05-2022

Collected By: Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit in the Absence of Alternate Source
1.	Colour , Hazen Units, Max	1	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.2	1	5
5.	pH	6.71	6.5 - 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	75	500	2000
7.	Aluminium (as Al), mg/l, Max.	ND	0.03	0.2
8.	Boron (as B), mg/l, Max.	ND	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	32	75	200
10,	Chloride (as Cl), mg/l, Max	7.1	250	1000
11.	Copper (as Cu), mg/l, Max	ND	0.05	1.5
12.	Fluorides (as F), mg/l, Max	ND	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	ND	0.2	1
14.	Iron (as Fe), mg/l, Max	0.012	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	3	30	100
16.	Manganese (as Mn), mg/l, Max	ND	0.1	0.3
17.	Zinc (as Zn), mg/l, Max	ND	5.0	15
18.	Nitrate (as NO ₁), mg/l, Max	0.3	45	No Relaxation
19.	Sulfate (as SO ₄), mg/l, Max	ND	200	400
20.	Phenolic Compunds (as C ₆ H ₅ OH), mg/l, Max.	ND	0.001	0,002
				Continued

^{*}Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ND: Not Detected

Checked By: Mr. Pankaj Barol, ENVIROCON

NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement.

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E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/DW-05/01

:08/06/2022 Date

Order No.: FFE/7500001077 :30/03/2022 Date

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/22-23/DW-3005/01

Sample Source: Narmada Sadhan

Sample Type: Drinking Water

Collected On : 30-05-2022

Received On : 31-05-2022

Collected By: Envirocon Representative

SI. No.	Parameters	Results	Acceptable Limit*	Permissible Limit' in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO ₁), mg/l, Max	57	200	600
22.	Total Hardness, (as CaCO ₁), mg/l, Max	31	200	600
23.	Cadmium (as Cd), mg/l, Max.	ND	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	ND	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	ND	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	ND	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	NĐ	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	ND	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	ND	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	ND	0.01	0.05
31.	Total Chromium, (as Cr), mg/l, Max	ND	0.05	No Relaxation
32.	Faecal Coliforms/ 100 ml	NIL	Absent	Absent
33.	E. Coli / 100 ml	NIL	Absent	Absent
				End of Report

^{*}Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ND: Not Detected

Remarks: Drinking water from the above source is fit for drinking.



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Recognised By

Pollution Control Board, Assam

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/WW-05/01

Date :08/06/2022 Order No.: FFE/7500001077 :30/03/2022 Date

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

: GSCL/22-23/WW-3005/01

Sample Type/Source

: Waste Water (Treated)/ETP Outlet

Sample Collected By

: Representative of ENVIROCON

Sample Collected On Sample Received On

: 30.05.2022 : 31.05.2022

Analysis Protocol

: IS 3025

SI. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH		6.86	5.5 - 9.0
2.	Temperature	°C	23.3	shall not exceed 5°C above the receiving water temperature
3,	Total Suspended Solids	mg/l	35	100
4.	Biochemical Oxygen Demand	mg/l	21	30
5.	Chemical Oxygen Demand	mg/l	146	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	< 0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	4.1	50
9.	Total Kjeldahl Nitrogen (as NH ₂)	mg/l	14	100
10.	Free Ammonia (as NH ₃)	mg/l	< 0.01	5.0



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Order No.: Verbal

Date

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SW-05/01

Date : 08/06/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : GSCL/2022/SW-3005/01 Sample Source : Plant Nala Upstream Sample Type : Surface Water

Collected On : 30-05-2022 Received On : 31-05-2022 Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Limits (IS 10500:2012)
1.	Colour, Hazen Units, Max.	4	5
2.	Odour	Agreeable	Agreeable
3.	Temperature	25.6	
4.	pH Value	6.62	6.5 - 8.5
5.	Suspended Solids	33	
6.	Total Dissolved Solids, mg/l, Max.	147	500
7.	Conductivity, µS/cm	263	
8.	Dissolved Oxygen, mg/l, Min.	5.2	
9.	Biochemical Oxygen Demand, mg/l, Max.	5	
10.	Chemical Oxygen Demand, mg/l, Max.	33	
11.	Oil and Grease, mg/l, Max.	<4.0	
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2
13.	Total Hardness (as CaCO ₃), mg/l, Max.	21	200
14.	Calcium (as Ca), mg/l, Max.	5	75
15.	Magnesium (as Mg), mg/l, Max.	<1	30
16.	Iron (as Fe), mg/l, Max.	0.022	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	6	
18.	Total Kjeldahl Nitrogen (as NH3), mg/l, Max.	23	
19.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01	

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/SW-05/02

Date : 08/06/2022

Order No.: Verbal Date :

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : GSCL/2022/SW-3005/02 Sample Source : Plant Nala Downstream Sample Type : Surface Water

Collected On : 30-05-2022 Received On : 31-05-2022 Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Limits (IS 10500:2012)
1.	Colour, Hazen Units, Max.	4	5
2.	Odour	Agreeable	Agreeable
3.	Temperature	25.6	
4.	pH Value	6.61	6.5 - 8.5
5.	Suspended Solids	39	
6.	Total Dissolved Solids, mg/l, Max.	153	500
7.	Conductivity, µS/cm	267	
8.	Dissolved Oxygen, mg/l, Min.	5.2	
9.	Biochemical Oxygen Demand, mg/l, Max.	5	
10.	Chemical Oxygen Demand, mg/l, Max.	38	
11.	Oil and Grease, mg/l, Max.	<4.0	
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2
13.	Total Hardness (as CaCO₃), mg/l, Max.	23	200
14.	Calcium (as Ca), mg/l, Max.	4	75
15.	Magnesium (as Mg), mg/l, Max.	<1	30
16.	Iron (as Fe), mg/l, Max.	0.027	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	4	
18.	Total Kjeldahl Nitrogen (as NH3), mg/l, Max.	21	
19.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01	

Analysis Protocol: IS 3025



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Dated: 13.07.2022

No: GSCL/EHS/2022-23/18

To. The Member Secretary, Meghalaya State Pollution Control Board, Arden, Lumpyngngad, Shillong-793014.

Sub: Submission of Monthly Environmental Monitoring Reports - June 2022.

Dear Sir / Madam,

With reference to the subject as cited above, we are herewith submitting Monthly Environmental Monitoring Reports for the month of June 2022.

The test reports are enclosed.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully.

For Goldstone Cements Ltd.

Authorized Signatory

Encl: Environmental Monitoring Reports - June 2022.

MUSIANG LAMAR (OLD)



Factory Office



Envirocon Building, I.O.C.L (AOD) New Market

P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Order No.: FFE/7500001077

: 30/03/2022

Report No.: ENV/GSCL/22-23/AA-06/01

: 09/07/2022 Date

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village: Musiang Lamare (Old); PO: Khliehriat, Meghalaya-793200

AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS 1	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)	NH ₂ (µg/m ³)	CO (mg/m³)	Ο ₃ (μg/m³)	B(a)P (ng/m³)	C ₄ H ₆ (µg/m³)	Ni (ng/m³)	As (ng/m³)	Pb (µg/m²)
LIMITS -	-	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Near CPP (Water Reservoir)	19.06.2022	24.2	43.5	5.6	11.7	13.6	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near CCR (Material Yard)	19.06.2022	25.3	46.2	5.8	12.4	10.4	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near Guest House (Yamuna Sadan)	20.06.2022	20.4	33.4	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Residential Colony	20.06.2022	18.9	36.8	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



Checked By: Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/FE-06/01

Date

: 09/07/2022

Order No.: FFE/7500001077 Date :30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM (µg/m³)	Limits (µg/m³)
01	Fly-ash Storage Section	19.06.2022	756	5000
02	Coal Storage Section	19.06.2022	591	2000
03	Limestone Storage Section	20.06.2022	1754	5000
04	Cement Packing Section	20.06.2022	1857	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/SE-06/04

: 08/06/2022 Date

Order No.: FFE/7500001077 :30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GS	GSCL/22-23/SE-06/04				
02	Date of Sampling		20.06.2022				
03	Material of Construction		M. S.				
04	Stack Attached To		Cement Mill				
05	Flue Gas Temperature (°C)		63				
06	Exit Velocity of Gas (m/sec)		13.6				
07	Type of Fuel Used		NA*				
	Analy	sis Results of Flue Gas					
SL No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)			
r.	Particulate Matter	18	mg/Nm³	30			

*NA: Not Applicable



Checked By: Mr. Pankaj Barol, ENVIROCON

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Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

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Report No.: ENV/GSCL/22-23/SE-06/01

: 09/07/2022 Date

Order No.: FFE/7500001077 :30/03/2022 Date

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	G	GSCL/22-23/SE-06/01				
02	Date of Sampling		19.06.2022				
03	Material of Construction		M. S.				
04	Stack Attached To	Cooler E. S. P.					
05	Flue Gas Temperature (°C)	218					
06	Exit Velocity of Gas (m/sec)		14.3				
07	Type of Fuel Used		NA*				
	Analy	sis Results of Flue Gas					
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)			
ı	Particulate Matter	22	mg/Nm³	30			

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

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Report No.: ENV/GSCL/22-23/SE-06/02

: 09/07/2022

Order No.: FFE/7500001077 :30/03/2022 Date

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	G	GSCL/22-23/SE-06/02			
02	Date of Sampling		19.06.2022			
03	Material of Construction		M. S.			
04	Stack Attached To		Coal Mill			
05	Flue Gas Temperature (°C)		52			
06	Exit Velocity of Gas (m/sec)		10.1			
07	Type of Fuel Used		NA*			
	Analy	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s		
Ĺ	Particulate Matter	21	mg/Nm³	30		
ii.	Sulphur Dioxide (as SO ₂)	237	mg/Nm³	1000		
m.	Oxides of Nitrogen (as NO _s)	98	mg/Nm³	600		

^{*}NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/SE-06/03

Date : 09/07/2022

Order No.: FFE/7500001077 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-06/03				
02	Date of Sampling		19.06.2022			
03	Material of Construction	The state of	Refractory Brick			
04	Stack Attached To	Сар	tive Power Plant (C	PP)		
05	Flue Gas Temperature (°C)		103			
06	Exit Velocity of Gas (m/sec)	5.6				
07	Type of Fuel Used		Coal			
	Analy	sis Results of Flue Gas				
SL No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
4	Particulate Matter	39	mg/Nm³	50		
ii.	Sulphur Dioxide (as SO ₂)	469	mg/Nm³	600		
Wi.	Oxides of Nitrogen (as NO ₄)	212	mg/Nm³	300		
iv.	Mercury (as Hg)	<0.01	mg/Nm³	0.03		



Checked By: Mr. Pankaj Barol, ENVIROCON

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Report No.: ENV/GSCL/22-23/N-06/01

Date

: 09/07/2022

Order No.: FFE/7500001077

Date

: 30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

_	1			time	Night	Time
SI. No.	Location(s)	Date Of Measurement	L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Coal Mill	19.06.2022	62.3	75	57.1	70
2	Near CPP Area	19.06.2022	68.4	75	59.6	70
3	Near Coal Storage Yard	20.06.2022	62.6	75	51.2	70
4	Near Raw Mill	20.06.2022	71.8	75	65.4	70
	Near Cement Mill	20.06.2022	72.2	75	65.6	70
5	HR & Mine's Office	19.06.2022	61.8	75	50.7	70
7	CPP TG Building	21.06.2022	70.5	75	63.1	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/DW-06/01

: 09/07/2022 Date

Order No.: FFE/7500001077 :30/03/2022 Date

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehrlat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/22-23/DW-2606/01

Sample Source: Narmada Sadhan

Sample Type : Drinking Water

Collected On : 26-06-2022

Received On : 28-06-2022

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit in the Absence of Alternate Source
1.	Colour , Hazen Units, Max	2	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.3	1	5
5.	pH	6.84	6.5 - 8.5	No Relaxation
6.	Total Dissolved Solids, mg/L Max	71	500	2000
7.	Aluminium (as Al), mg/l, Max.	ND	0.03	0.2
8.	Boron (as B), mg/l, Max.	ND	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	29	75	200
10.	Chloride (as Cl), mg/l, Max	8.4	250	1000
11.	Copper (as Cu), mg/l, Max	ND	0.05	1.5
12.	Fluorides (as F), mg/L Max	ND	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	ND	0.2	1
14.	Iron (as Fe), mg/l, Max	0.019	0.3	No Relaxation
	Magnesium (as Mg), mg/l, Max	4	30	100
15.	Manganese (as Mn), mg/l, Max	ND	0.1	0.3
16.		ND	5.0	15
17,	Zinc (as Zn), mg/l, Max	0.6	45	No Relaxation
18.	Nitrate (as NO ₃), mg/l, Max	ND	200	400
19.	Sulfate (as SO ₄), mg/l, Max	ND	0.001	0.002
20.	Phenolic Compunds (as C ₆ H ₅ OH), mg/l, Max.			Continued

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025 ND: Not Detected



Checked By: Mr. Pankaj Barol, ENVIROCON

NOTE:

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Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/DW-06/01

:09/07/2022 Date

Order No.: FFE/7500001077 :30/03/2022 Date

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/22-23/DW-2606/01

Sample Source : Narmada Sadhan

Sample Type : Drinking Water

Collected On : 26-06-2022

Received On : 28-06-2022

Collected By : Envirocon Representative

1	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
No.	2,000,000,000	Miles and a second	200	600
1.	Total Alkalinity(as CaCO ₃), mg/l, Max	62	200	600
	Total Hardness, (as CaCO ₃), mg/l, Max	33	0.003	No Relaxation
	Cadmium (as Cd), mg/l, Max.	ND	0.05	No Relaxation
	Cyanide (as CN), mg/l, Max.	ND	0.01	No Relaxation
25.	Lead (as Pb), mg/l, Max.	ND	0.001	No Relaxation
26.	Mercury (as Hg), mg/L Max.	ND	0.01	No Relaxation
27.	Selenium (as Se), mg/L Max.	ND		No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	ND	0.05	1.0
	Anionic Detergents (as MBAS), mg/l	ND	0,2	0.05
29.	Total Arsenic (as As), mg/l, Max	ND	0.01	No Relaxation
30.	Total Chromium, (as Cr), mg/l, Max	ND	0.05	Absent
31.		NIL	Absent	
32.	Faecal Coliforms/ 100 ml	NIL	Absent	Absent
33.	E. Coli / 100 ml	MIL		-End of Report

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025 ND: Not Detected

Remarks: Drinking water from the above source is fit for drinking.



Checked By: Mr. Pankaj Baroi, ENVIROCON

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E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/WW-06/01

: 09/07/2022 Date

Order No.: FFE/7500001077 : 30/03/2022 Date

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

: GSCL/22-23/WW-2606/01

Sample Type/Source

: Waste Water (Treated)/ETP Outlet

Sample Collected By

: Representative of ENVIROCON

Sample Collected On Sample Received On : 26.06.2022 : 28.06.2022

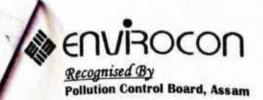
sis Protoc	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
	-SV		6.74	5.5 - 9.0
1.	pH	77	25.8	shall not exceed 5°C above th
2.	Temperature	°C	25.8	receiving water temperature
3.	Total Suspended Solids	mg/l	37	100
4.	Biochemical Oxygen Demand	mg/l	19	30
	Chemical Oxygen Demand	mg/l	153	250
5.	The state of the s	mg/l	<4.0	10
6.	Oil & Grease		0.01	1.0
7.	Total Residual Chlorine	mg/l	<0.01	
8.	Ammonical Nitrogen (as N)	mg/l	4.9	50
-		mg/l	16	100
9.	Total Kjeldahl Nitrogen (as NH ₃)		<0.01	5.0
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	3.0



Checked By: Mr. Pankaj Barol, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SW-06/01

Date

:09/07/2022

Order No.: FFE/7500001077

:30/03/2022 Date

GOLDSTONE CEMENTS LIMITED Report Issued To:

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/2022/SW-2606/01

Sample Source : Plant Nala Upstream

Sample Type : Surface Water

Collected On : 26-06-2022

Received On : 28-06-2022

Collected By : Envirocon Representative

SI. No.	Parameters	Results	Limits (IS 10500:2012)
1.	Colour, Hazen Units, Max.	3	5
2.	Odour	Agreeable	Agreeable
3.	Temperature	25.6	-
4.	pH Value	6.74	6.5 - 8.5
5.	Suspended Solids	31	-
6.	Total Dissolved Solids, mg/l, Max.	153	500
7.	Conductivity, µS/cm	276	-
8.	Dissolved Oxygen, mg/l, Min.	5.9	
9.	Biochemical Oxygen Demand, mg/l, Max.	4	
10.	Chemical Oxygen Demand, mg/l, Max.	30	-
11.	Oil and Grease, mg/l, Max.	<4.0	-
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2
13.	Total Hardness (as CaCO ₅), mg/l, Max.	26	200
14.	Calcium (as Ca), mg/l, Max.	6	75
15.	Magnesium (as Mg), mg/l, Max.	<1	30
16.	Iron (as Fe), mg/l, Max.	0.029	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	5	
18.	Total Kjeldahl Nitrogen (as NH ₂), mg/l, Max.	24	-
19.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01	

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/SW-06/02

Date

:09/07/2022

Order No.: FFE/7500001077

Date

:30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/2022/SW-2606/02

Sample Source : Plant Nala Downstream

Sample Type : Surface Water

Collected On : 26-06-2022

Received On : 28-06-2022

Collected By : Envirocon Representative

SI. No.	Parameters	Results	Limits (IS 10500:2012)
1.	Colour, Hazen Units, Max.	3	5
2.	Odour	Agreeable	Agreeable
3.	Temperature	25.6	- A
4.	pH Value	6.85	6.5 - 8.5
5.	Suspended Solids	41	-
6.	Total Dissolved Solids, mg/l, Max.	166	500
7.	Conductivity, µS/cm	281	-
8.	Dissolved Oxygen, mg/l, Min.	5.5	-
9.	Biochemical Oxygen Demand, mg/l, Max.	7	-
10.	Chemical Oxygen Demand, mg/l, Max.	42	-
11.	Oil and Grease, mg/l, Max.	<4.0	-
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2
13.	Total Hardness (as CaCO ₅), mg/l, Max.	28	200
14.	Calcium (as Ca), mg/l, Max.	8	75
15.	Magnesium (as Mg), mg/l, Max.	<1	30
16.	Iron (as Fe), mg/l, Max.	0.034	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	6	+
18.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	28	4
19.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01	-

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Recognised By **Pollution Control Board, Assam**

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Ph: 03781-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

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Report No.: ENV/GSCL/22-23/WW-06/04

Date

:09/07/2022

Order No.: FFE/7500001077

Date

: 30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Vill.: Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

: GSCL/22-23/WW-2606/04

Sample Type/Source

; Waste Water/Boiler Blow Down

Sample Collected By

: Representative of ENVIROCON

Sample Collected On

: 26,06,2022

Sample Received On

: 28.06.2022

Analysis Protocol

: IS 3025

SI. No.	Parameters	Analysis Results	Units	Limit
1.	Total Suspended Solids	12	mg/l	100
2.	Oil & Grease	<4.0	mg/l	20 1.0
3.	Copper	<0.001	mg/l	
4.	Iron	<0.001	mg/l	1.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/WW-06/03

: 09/07/2022 Date

Order No.: FFE/7500001077 : 30/03/2022 Date

GOLDSTONE CEMENTS LIMITED Report Issued To:

Vill.: Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

: GSCL/22-23/WW-2606/03

Sample Type/Source

: Waste Water/Cooling Tower Blow Down

Sample Collected By

: Representative of ENVIROCON

Sample Collected On

: 26.06.2022

Sample Received On Analysis Protocol

: 28.06.2022 : IS 3025

SI. No.	Parameters	Analysis Results	Units	Limit
1.	Residual Free Chlorine	<0.01	mg/l	0.5
2.	Zinc	<0.01	mg/l	1.0
3.	Total Chromium	<0.001	mg/l	0.2
4.	Phosphate	<0.01	mg/l	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/WW-06/02

: 09/07/2022 Date

Order No.: FFE/7500001077 :30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Vill.: Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

: GSCL/22-23/WW-2606/02

Sample Type/Source

: Waste Water/Condenser Cooling Point

Sample Collected By

: Representative of ENVIROCON

Sample Collected On

: 26.06.2022

Sample Received On

: 28.06.2022

Analysis Protocol

: 15 3025

SI. No.	Parameters	Analysis Results	Units	Limit
10	19520	6.59	_	6.5 - 8.5
1.	pH	0.37	_	Not more than 500
2.	Temperature	25.6	°C	higher than the intake water temperature
3.	Residual Free Chlorine	<0.01	mg/l	0.5



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Report No.: ENV/GSCL/22-23/SE-06/05

nate :

: 18/07/2022

Order No.: FFE/7500001077 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Vill.: Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-06/05		
02	Date of Sampling	21.06.2022		
03	Material of Construction		M. S.	
04	Stack Attached To	Ra	w Mill and Kiin	
05	Flue Gas Temperature (°C)		207	
06	Exit Velocity of Gas (m/sec)		17.6	
07	Type of Fuel Used		Coal	
		ults of Flue Gas		
SI. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
SI. NO.	Particulate Matter	15.2	mg/Nm ³	30
h.		471	mg/Nm³	1000
11.	Sulphur Dioxide (as SO ₂)	270	mg/Nm³	600
III.	Oxides of Nitrogen (as NO _x)	14.6	% V/V	
IV.	Oxygen (as O ₂)	BDL [MDL: 1.0]	mg/Nm³	10
V.	Hydrogen Chloride (as HCl)	BDL [MDL: 0.1]	mg/Nm³	1
VI.	Hydrogen Fluoride (as HF)	BDL [MDL: 0.01]	mg/Nm³	0.03
VII.	Mercury (as Hg)		mg/Nm³	0.05
VIII.	Hg and its compounds	BDL [MDL: 0.01]	-	0.05
IX.	Cd + Tl and their compounds	BDL [MDL: 0.01]	mg/Nm³	9,0,55
x	Sb+As+Pb+Co+Cr+Cu+Mn+Ni+V+ and their compounds	BDL [MDL: 0.01]	mg/Nm³	0.5
XI.	Total Organic Carbon (as TOC)	BDL [MDL: 0.1]	mg/Nm ³	10

BDL: Below Detectable Limit MDL: Minimum Detectable Limit



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/21-22/SE-06/06

18/07/2022

Order No.: FFE/7500001077 130/03/2022 Date

Report Issued To: GOLDSTONE CEMENTS LIMITED

VIII.: Mustang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-06/06			
02	Date of Sampling	21.06.2022			
03	Stack Attached To	Raw Mill and Kiln			
04	Type of Puel Used	Coal			
	. An	alysis Results of Flue Gas			
SI. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
10	Total Dioxins and Furans	BDL [MDL: 0.01]	ngTEQ/Nm³	0.1	

BDL: Below Detectable Limit

MDL: Minimum Detectable Limit



Checked By: Mr. Pankaj Barol, ENVIROCON

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No: GSCL/EHS/2022-23/20

Dated: 11.08.2022

To,
The Member Secretary,
Meghalaya State Pollution Control Board,
Arden, Lumpyngngad,
Shillong-793014.

Sub: Submission of Monthly Environmental Monitoring Reports - July 2022.

Dear Sir / Madam,

With reference to the subject as cited above, we are herewith submitting Monthly Environmental Monitoring Reports for the month of July 2022.

The test reports are enclosed.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully.

For Goldstone Cements Ltd.

Authorized Signator

Encl: Environmental Monitoring Reports - July 2022.

ONE CE



Goldstone Cements Limited
CIN No.: U26940ML2007PLC008298



Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435008657, 8876028672

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/FE-07/01

Date

:09/08/2022

Order No.: FFE/500001077 :30/03/2022

Date

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Muslang Lamare (Old), P. O.:- Khilehriat, Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

52. No.	Locations	Date of Sampling	Results for SPM (µg/m²)	Limits (µg/m²)	
01	Fly-ash Storage Section	ge Section 23.07.2022		5000	
02	Coal Storage Section	23.07.2022	617	2000 5000	
03	Limestone Storage Section	24.07.2022	1810		
04	Cement Packing Section	24.07.2022	2194	5000	

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Barol, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/N-07/01

Date : 09/08/2022

Order No.: FFE/7500001077 Date :: 30/03/2022

Report Issued To :

GOLDSTONE CEMENTS LIMITED

Village- Mustang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

SI. No.	Location(s)	Date	Day	time	Night Time	
	entanon(s)	Of Measurement	Lq (dB-A)	Limit (dB-A)	(dB-A)	Limit (dB-A)
1	Near Coal Mill	24.07,2022	62.5	75	55.5	70
2	Near CPP Area	24.07.2022	70.3	75	57.8	70
3	Near Coal Storage Yard	24.07.2022	66.7	75	52.6	70
•	Near Raw Mill	23.07.2022	71.2	75	63.6	70
5	Near Cement Mill	23.07.2022	72.4	75	64.7	70
6	HR & Mine's Office	25.07.2022	59.7	75	49.2	70
7	CPP TG Building	25.07.2022	70.7	75	65.4	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

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CIN: U26940ML2007PLC008298



AMBIENT AIR QUALITY MONITORING RESULTS

JULY - 2022

	Date of	Parameters Results					
Stations Name	Monitoring	PM _{2.5}	PM10	SOz	NO ₂		
		Limit 60 µg/m³	Limit 100 µg/m³	Limit 80 μg/m³	Limit 80 µg/m³		
Near CPP Water Reservoir	07.07.2022	33.2	44.6	6.2	10.1		
Near CCR Material Yard	08.07.2022	No Sampling Due to Rain fall					
Near Guest House (Yamuna Sadan)	09.07.2022	13.9	33.5	<5.0	<6.0		
Residential Colony	10.07.2022	15.9	31.4	<5.0	<6.0		





Verified By

CIN: U26940ML2007PLC008298



AMBIENT AIR QUALITY MONITORING RESULTS

JULY - 2022

	Date of	Parameters Results					
Stations Name	Monitoring		PM ₁₀	SO ₂	NO ₂		
		Limit 60 µg/m³	Limit 100 µg/m³	Limit 80 µg/m³	Limit 80 µg/m³		
Near CPP Water Reservoir	12.07.2022	36.5	51.3	6.5	10.8		
Near CCR Material Yard	13.07.2022	41.2	56.2	7.3	12.8		
Near Guest House (Yamuna Sadan)	14.07.2022	21.2	36.5	<5.0	<6.0		
Residential Colony	15.07.2022	19.2	32.9	<5.0	<6.0		

Analyzed By



Verified by

CIN: U26940ML2007PLC008298



AMBIENT AIR QUALITY MONITORING RESULTS

JULY - 2022

Stations Name	Date of Monitoring	Parameters Results					
	oo.	PM _{2.5}		SO ₂	NOz		
		Limit 60 µg/m³	Limit 100 µg/m³	Limit 80 µg/m³	Limit 80 µg/m³		
Near CPP Water Reservoir	19.07.2022	35.6	46.2	7.3	11.8		
Near CCR Måterial Yard	20.07.2022	39.4	52.2	8.6	13.7		
Near Guest House (Yamuna Sadan)	22.07.2022	21.6	35.6	<5.0	<6.0		
Residential Colony	23.07.2022		No Sampling (Due to Rain f	all		

Analyzed By



Verified By



Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03781-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

15O 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/AA-07/01

: 09/08/2022

Order No.: FFE/7500001077

Date 130/03/2022

GOLDSTONE CEMENTS LIMITED Report Issued To 1

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalays- 793200

AMBIENT AIR QUALITY TEST RESULTS

sı.	Location(s) i	Date of	PM 2.5 (µg/m³)	PM 10 (µg/m ^b)	SO ₁ (μg/m ³)	NO ₃ (µg/m³)
No. Limit(s) →	Sampling 60	60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)	
1.	Near CPP (Water Reservoir)	25.07.2022	29.3	53.9	6.9	7.8
2,	Near CCR (Material Yard)	24.07.2022	27.7	50.7	5.6	8.2
3.	Near Guest House (Yamuna Sadan)	24.07.2022	21.5	33.7	<5.0	<6.0
	Residential Colony	25.07.2022	22.6	31.6	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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CIN: U26940ML2007PLC008298



STACK EMISSION MONITORING REPORT

JULY 2022

Name of Stack & Stack No.	-	1	Raw Mi	ll & Kiln (1)
Date of Monitoring		1	06.07.2022	
Stack Velocity of Flue gas		1	21.0m/s	
Stack Temperature		1	445 °K	
Monitoring Period		1	39m	
Flow Rate		1	26.5LPM	
Parameters	Results	1000	andard Limits	Unit
Particulate Matter	23.7		30	(mg/Nm ³)
Sulphur Dioxide(502)	528.2	2 - 20	1000	(mg/Nm³)
Nitrogen Oxide (NOX)	338.1	ME	600	(mg/Nm ³)





verified By



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Report No.: ENV/GSCL/22-23/SE-07/01

Date

:09/08/2022

Order No.: FFE/7500001077

Date 130/03/2022

GOLDSTONE CEMENTS LIMITED Report Issued To:

Village- Muslang Lamare (Old), P. O.:- Khilehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/58-07/01				
02	Date of Sampling		24,07,2022			
03	Material of Construction	M.S.				
04	Stack Attached To	Raw Mill (Klin)				
05	Flue Gas Temperature (*C)	173				
06	Exit Velocity of Gas (m/sec)	20.2				
07	Type of Fuel Used	NA*				
	Analy	sis Results of Flue Gas				
SI, No.	Parameter(s)	Result(s) Unit(s)		Limit(s)		
Ł	Particulate Matter	19	19 mg/Nm ³			
	Sulphur Dioxide (as SO ₂)	571 mg/Nm³				
и.	Oxides of Nitrogen (as NO ₄)	227	mg/Nm³	600		

"NA: Not Applicable



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E-mail: envirocon@rediffmail.com

15O 9001:2015 Certified 15O 45001:2016 Certified

Report No.: ENV/GSCL/22-23/SE-07/02

Date 109/08/2022

Order No.: FFE/7500001077 Date : 30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Muslang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-07/02					
02	Date of Sampling		24.07.2022				
03	Material of Construction		M. S.				
04	Stack Attached To		Coal Mill				
05	Flue Gas Temperature (°C)	59					
06	Exit Velocity of Gas (m/sec)	13.1					
07	Type of Fuel Used	NA*					
	Analy	sis Results of Flue Gas					
SI. No.	Parameter(s)	Result(s)	Result(s) Unit(s)				
t	Particulate Matter	14	14 mg/Nm³				
L	Sulphur Dioxide (as SO ₂)	239 mg/Nm³					
	Oxides of Nitrogen (as NO ₄)	108	mg/Nm³	600			

*NA: Not Applicable



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CIN: U26940ML2007PLC008298



STACK EMISSION MONITORING REPORT

July- 2022

Name of Stack & Stack No.		1	Coal Mil	(2)
Date of Monitoring		1	06.07.20	022
Stack Velocity of Flue gas		1	13.4 m/s	
Stack Temperature		1	329 °K	
Monitoring Period		1	50m	
Flow Rate		1	19.4 LPN	1
Parameters	Results	Stand	lard Limits	Unit
Particulate Matter	25.1		30	(mg/Nm³)
Sulphur Dioxide(SO2)	419.2		1000	(mg/Nm ³)
Nitrogen Oxide (NOX)	228.4		600	(mg/Nm³)







BLACKTIGER

CIN: U26940ML2007PLC008298

STACK EMISSION MONITORING REPORT

July - 2022

lame of Stack & Stack No.		1	Cooler E	SP(3)
Date of Monitoring	1	09.07.2022		
Stack Velocity of Flue gas		1	11.3 m/s	
Stack Temperature		i	492 °K	
Monitoring Period		:	33m	
Flow Rate		1	24.8 LP	M.
Parameters	Results		Standard Limits	Unit
Particulate Matter	18.2		30	(mg/Nm³)









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15O 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-07/05

:09/08/2022

Order No.: FFE/7500001077 130/03/2022

Report Issued To :

GOLDSTONE CEMENTS LIMITED

Village- Muslang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/58-07/05					
02	Date of Sampling		25.07.2022				
03	Material of Construction	M. S.					
04	Stack Attached To	Cooler E. S. P.					
05	Flue Gas Temperature (°C)	219					
06	Exit Velocity of Gas (m/sec)	145					
07	Type of Fuel Used	NA*					
	Analy	sis Results of Flue Gas					
SL No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)			
E	Particulate Matter	22	mg/Nm³	30			

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001/2015 Certified 15O 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-07/04 109/08/2022

Order No.: FFE/7500001077 130/03/2022 Date

Report Issued To :

GOLDSTONE CEMENTS LIMITED

Village- Mustang Lamare (Old), P. O.:- Khilehrist, Meghalaya- 793200

STACK EMISSION TEST RESULTS

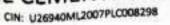
01	Test Ref. No.	GSCL/22-23/SR-07/04				
02	Date of Sampling	25.07.2022				
03	Material of Construction	M. S.				
04	Stack Attached To	Cement Mill				
05	Flue Gas Temperature (°C)	63				
06	Exit Velocity of Gas (m/sec)	13.7				
07	Type of Fuel Used	NA*				
	Analy	sis Results of Flue Gas				
SL No.	Parameter(s)	Result(s)	Unit(*)	Limit(s)		
· F	Particulate Matter	12	mg/Nm³	30		

"NA: Not Applicable



Checked By: Mr. Pankaj Barol, ENVIROCON

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STACK EMISSION MONITORING REPORT

July - 2022

Name of Stack & Stack No.	1084450	i	Cement	Mill (4)
Date of Monitoring		1	11.07.2022	
Stack Velocity of Flue gas			13.7m/s	
Stack Temperature		:	346 °K	
Monitoring Period		1	55m	
Flow Rate		i	18.5 LPM	1
Parameters	Results	S	Standard Limits	Unit
Particulate Matter	15.3		30	(mg/Nm³)





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CIN: U26940ML2007PLC008298



STACK EMISSION MONITORING REPORT

July - 2022

Name of Stack & Stack No.		1	CPP (5)	
Date of Monitoring		1	11.07.2022	
Stack Velocity of Flue gas		1	8.5 m/s	
Stack Temperature		:	379 °K	
Monitoring Period		i	39m	
Flow Rate		:	26.9 LPM	
Parameters	Results		Standard Limits	Unit
Particulate Matter	38.5		50	(mg/Nm ³)
Sulphur Dioxide (SO2)	425.1		600	(mg/Nm³)
Nitrogen Oxide (NOX)	219.7	3	300	(mg/Nm³)









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E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified 1SO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-07/03

109/08/2022

Order No.: FFE/7500001077 130/03/2022 Date

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khilehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/5E-07/03				
02	Date of Sampling		24,07,2022			
03	Material of Construction	Refractory Brick				
04	Stack Attached To	Captive Power Plant (CPP)				
05	Flue Gas Temperature (°C)	101				
06	Exit Velocity of Gas (m/sec)	8.6				
07	Type of Fuel Used	Coal				
	Analy	sis Results of Flue Gas				
SL No.	Parameter(s)	Result(s)	Result(s) Unit(s)			
ı	Particulate Matter	43	43 mg/Nm ³			
ı.	Sulphur Dioxide (as 50s)	473 mg/Nm³				
u.	Oxides of Nitrogen (as NO _x)	221	mg/Nm³	300		



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Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

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Report No.: ENV/GSCL/22-23/DW-07/01

:09/08/2022 Date

Order No.: FFE/7500001077 :30/03/2022 Dute

Report Issued To 1

GOLDSTONE CEMENTS LIMITED

Village- Muslang Lamare (Old), P. O .- Khliehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : GSCL/22-23/DW-3107/01

Sample Source : Teasta Sadhan

Sample Type : Drinking Water

Collected On | 31-07-2022

Received On : 02-08-2022

Collected By : Envirocon Representative

SL No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
	Colour, Hazen Units, Max	2	5	15
1.	Odout	Odourless	Agreeable	Agreeable
2.	Teste	Acceptable	Agreeable	Agreeable
3.	Turbidity, NTU, Max	0.3	1	5
4.		6.83	6,5 - 8.5	No Relaxation
5.	pH Total Dissolved Solids, mg/l, Max	71	500	2000
6	A)uminium (as Al), mg/l, Max.	ND	0.03	0.2
7.		ND	0.5	1.0
8.	Boron (as B), mg/L Max.	31	75	200
9.	Calcium (as Ca), mg/L Mux	7.3	250	1000
10.	Chloride (as CI), mg/l, Max		0.05	1.5
11.	Copper (as Cu), mg/l, Max	ND	1.0	1.5
12.	Fluorides (as F), mg/l, Max	ND	0.2	1
13.	Free Residual Chlorine, mg/l, Min	ND	0.3	No Relaxation
14.	Iron (as Fe), mg/l, Max	0.013	30	100
15.	Magnesium (as Mg), mg/l, Mex	2		0.3
16.	Manganese (as Mn), mg/l, Max	ND	0.1	15
17.	Zinc (as Zn), mg/l, Max	ND	5.0	
18.	Nitrate (as NO ₂), mg/l, Max	0.4	45	No Relaxation
19.	Sulfate (as SO ₄), mg/l, Max	ND	200	400
20.	Phenolic Compunds (as C ₆ H ₅ OH), mg/L Max.	ND	0.001	0.002
				-Continued-

*Limits as per 15 10500:2012

Analysis Protocol: 15 3025 ND: Not Detected



Checked By: Mr. Pankaj Barol, ENVIROCON

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Ph: 03781-264414, 9438008657, 8876028672 E-mail: envirocon@rediffmail.com ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/DW-07/01

Date : 09/08/2022

Order No.: PFE/7500001077 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khilehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : GSCL/22-23/DW-3107/01

Sample Source : Tessta Sadhan

Sample Type : Drinking Water

Collected On : 31-07-2022

Received On : 02-08-2022

Collected By : Envirocon Representative

SL No.	Parameters	Results	Acceptable Limit*	Permissible Limit in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO ₂), mg/l, Max	55	200	600
22.	Total Hardness, (as CaCO ₁), mg/L Max	32	200	600
23.	Cadmium (as Cd), mg/L Max.	ND	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	ND	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	ND	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	ND	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	ND	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	ND	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	ND	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	ND	0.01	0.05
31.	Total Chromium, (as Cr), mg/L Max	ND	0.05	No Relaxation
32.	Faecal Coliforms/ 100 ml	NIL	Absent	Absent
33.	E. Coli / 100 ml	NIL	Absent	Absent
			The state of the s	-End of Report-

*Limits as per IS 10500:2012

Analysis Protocol: 15 3025

ND: Not Detected

Remarks: Drinking water from the above source is fit for drinking.



Checked By: Mr. Pankaj Barol, ENVIROCON

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Pollution Control Board, Assam

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/WW-07/01 109/08/2022 Date

Order No.: FFE/7500001077 :30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehrist, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

GSCL/22-23/WW-3107/01

Sample Type/Source

: Waste Water (Treated)/ETP Outlet

Sample Collected By

: Representative of ENVIROCON

Sample Collected On Sample Received On : 31.07.2022 02.08.2022

Anabesis Protectal

- 15 3025

SI. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
200000		-	6.81	5.5 - 9.0
2.	pH Temperature	*C	24.2	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	33	100
	Biochemical Oxygen Demand	mg/l	22	30
5.	Chemical Oxygen Demand	mg/l	149	250
6	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	4,3	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Barot, ENVIROCON

NOTE:

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Report No.: ENV/GSCL/22-23/WW-07/02

109/08/2022 Date

Order No.: Date

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Muslang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

GSCL/22-23/WW-3107/02

Sample Type/Source

: Waste Water (Treated)/CPP N-PR Outlet

Sample Collected By

: Representative of ENVIROCON

Sample Collected On

: 31.07.2022

Sample Received On	102.08.2022
Analysis Protocol	15 3025
SL No.	Parame

SL No.	Parameter(s)	Unit(s)	Result(s)	(As Per CPCB Standards)	
	The state of the s		6.68	5.5 - 9.0	
1.	pH	-	-	shall not exceed 5°C above the	
2.	Temperature	NC NC	26.1	receiving water temperature	
7,1201	Total Suspended Solids	mg/l	22	100	
3.	The second secon		23	30	
4.	Biochemical Oxygen Demand	mg/l		250	
5.	Chemical Oxygen Demand	mg/l	87		
6	Of & Grease	mg/l	<4.0	10	
		mg/l	<0.01	1.0	
7.	Total Residual Chlorine		12	50	
R.	Ammonical Nitrogen (as N)	mg/l		100	
9.	Total Kjeldahl Nitrogen (as NHs)	mg/l	42	100	
10.	Free Ammonia (as NHs)	mg/l	<0.01	5.0	



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No: GSCL/EHS/2022-23/25

Dated 08.09.2022

To,
The Member Secretary,
Meghalaya State Pollution Control Board,
Arden, Lumpyngngad,
Shillong-793014

Sub: Submission of Monthly Environmental Monitoring Reports - AUGUST 2022.

Dear Sir / Madam,

With reference to the subject as cited above, we are herewith submitting Monthly Environmental Monitoring Reports for the month of AUGUST 2022.

The test reports are enclosed.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully.

For Goldstone Cements Ltd.

Authorized Signatory

Encl: Environmental Monitoring Reports - AUGUST 2022



1



CIN: U26940ML2007PLC008298

AMBIENT AIR QUALITY MONITORING RESULTS

August - 2022

Stations Name	Date of	Parameters Results					
	Date of Monitoring	PM _{2.5} PM ₁₀ SO ₂		SO ₂	NO ₂		
		Limit 60 µg/m³	Limit 100 µg/m³	Limit 80 µg/m³	Limit 80 µg/m		
Near CPP Water Reservoir	04.08.2022	34.6	42.8	6.1	9.2		
Near CCR Material Yard	05.08.2022	33.9	43.1	5.9	8.6		
Near Guest House (Yamuna Sadan)	06.08.2022	12.8	31.9	<5.0	<6.0		
Residential Colony	08.08.2022	13.7	32.4	<5.0	<6.0		

Analyzed By



Verified By

BLACKTIGER

CIN: U26940ML2007PLC008298

AMBIENT AIR QUALITY MONITORING RESULTS

August - 2022

	Date of	Parameters Results					
Stations Name	Date of Monitoring	PM _{2.5}	PM _{2.5} PM ₁₀ SO ₂				
	370.35.00.545,35.0	Limit 60 µg/m³	Limit 100 µg/m³	Limit 80 µg/m³	Limit 80 µg/m³		
Near CPP Water Reservoir	09.08.2022	37.2	53.2	6.4	11.1		
Near CCR Material Yard	10.08.2022	42.1	55.3	6.9	13.1		
Near Guest House (Yamuna Sadan)	11.08.2022	22.5	38.4	<5.0	<6.0		
Residential Colony	12.08.2022	18.7	33.4	<5.0	<6.0		

Analyzed By

COLLEGE OF

Veriffed By

Regd. Office and Works: Village - Musiang Lamare (Old) , Khliehriat, Dist: East Jaintia Hills, Meghalaya, Pin-793200 Marketing Office: SA, 5th Floor, Shine-Tower, 57 Satijyamati Road, Arya Chowk, Rahaberi, Guwahati, Assam-781008 Recognized By Pollution Control Board, Assam Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 2435008657, 8876028672 E-mail: envirocon@rediffmail.com

ISO 9001-2015 Certified ISO 45001-2018 Certified

Report No.: ENV/GSCL/22-23/AA-08/01

Date 1

102/09/2022

Order No.: FFE/7500001077

Date : 30/03/2022

Report Issued To : GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.- Khliehriat, Meghalaya- 793200

AMBIENT AIR QUALITY TEST RESULTS

SL No.	Location(s) 4	Date of	PM 2.5 (lig/m²)	PM 10 (kg/m²)	50s (ug/m²)	NO ₁ (a/g/m ²)
Ne.	Limit(s) →	Sampling	60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
i.	Near CPP (Water Reservoir)	19.08.2022	31.4	57.2	6.7	7.2
2.	Near CCR (Material Yard)	18.08.2922	29.6	51.4	53	7.7
3.	Near Guest Hossis (Yamuna Sadan)	10.00.2022	183	32.9	<5.0	*50
4.	Residential Colony	19.07.2022	25.8	34.7	×5.0	v6.0

Analysis Protocol: IS 51112



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE: 1. Natural reported are solid at the time of and under the prevailing conditions of measurement.

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Core Services: Environmental Manitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs Associate Services: Certification by Competent Person (CIF), NDT, Hydroulic Testing, Chartered Engineer Services etc.



CIN: U26940ML2007FLC008298

AMBIENT AIR QUALITY MONITORING RESULTS

August - 2022

Stations Namo	Date of Monitoring	Parameters Results				
	William	PM2.3	PM ₂₃ PM ₁₀ SO ₂		NO ₂	
		Elmit 60 µg/m³	Limit 100 µg/m³	Umit 80 µg/m³	Limit 80 µg/m³	
Near CPP Water Reservoir	23.08.2022	36.4	42.6	7.4	12.1	
Near CCR Material Yard	24.08.2022	39.7	54.6	7.9	12.5	
Near Guest House (Yamuna Sadan)	25.08.2022	23.4	36.7	<5.0	<6.0	
Residential Colony	26.08.2022	17.8	35.2	<5.0	< 6.0	

Analyzed By



Verlited By

Regd. Office and Works: Village - Muslang Lamare (Old) , Khliehriat, Dist: East Jaintia Hills, Meghalaya, Pin-793200 Marketing Office: 5A, 5° Hoor, Shine -Tower, 57 Satiyamati Road, Arya Chowk, Rahaberi, Guwahati, Assam-781008



CIN: U26940ML2007PLC008298

STACK EMISSION MONITORING REPORT

August 2022

1110		Rav	v Mill & Kiln (1)-	
Name of Stack & Stack No.		. 09.	08. 2022	
Date of Monitoring		*	12.0m/s	
tack Velocity of Flue gas		20/		
Stack Temperature		. 24.	46m -	
Monitoring Period			12LPM	
Flow Rate			Unit	
Parameters	Results	Standard Limits		
Particulate Matter	22.6	30	(mg/Nm³)	
	532.5	1000	(mg/Nm³)	
Sulphur Dioxide(SO2)	532.5	766	(mg/Nm ³)	
Nitrogen Oxide (NOX)	340.2	600	11.07.24	



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USO 9001:2015 Carrified 15 O 41001.2018 Certified

Report No.: ENV/GSCI:/22-23/SE-08/02

:02/09/2022

Order No.: FFE/7500001077

Date :36/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamore (Old), P. O. - Khliehrtat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Tout Ref. No.	GSCL/22-23/SH-06/TIZ			
0.2	Date of Sampling		18.09.2022		
0.8	Material of Construction	H.S.			
04	Stack Attached Ye	Raw MG (Kille)			
85:	Flue Gas Temperature (°C)	176			
24	East Velocity of Gas (m/sec)	21.3			
97	Type of Fuel Used	NA*			
	Analy	sis Results of Flue Gas			
SI. No.	Parameter(s)	Result(x)	Unit(x)	Limit(x)	
97.	Particulate Matter	21	srig/Non*	30	
	Sulphur Bioside (as SO ₂)	579	mg/Nm)	1000	
m.	Oxides of Nitrogen (at NO _c)	223	mg/Nmi?	800	

^{*}NA: Not Applicable



Checked By: Mr. Pankaj Barot, ENVIROCON

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CIN: U2E940ML2007FLC008298

STACK EMISSION MONITORING REPORT

August 2022

Name of Stack & Stack No.			Coal N	tin (2)
Date of Monitoring		10	09.08.	2022
Stack Velocity of Flue gas		1	11.6 m/s	
Stack Temperature		122	337 °K	
Monitoring Period		1	48.94m	
Flow Rate		1.0	23.22	LPM
Parameters	Results		tandard Limits	Unit
Particulate Matter	23.5		30	(mg/Nm³)
Sulphur Dioxide(SO2)	478.2		1000	(mg/Nm³)
Nitrogen Oxide (NOX)	229.2		600	(mg/Nm³)
Military Control of the Control of t	50000			





ym Shar

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-08/01

Date

102/09/2022

Order No.: FFE/7500001077 Date: 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamure (Old), P. O.- Khlichriat, Meghalaya-793290

STACK EMISSION TEST RESULTS

01	Test Ref. No.	63	CL/22-23/SE-08/01			
82	Dute of Sampling	18.01(2022				
03	Material of Construction	M.S.				
04	Stack Attached To	Coal Mill				
05	Flue Gas Temperature (°C)	.94				
06	Exit Velocity of Gas (m/sec)	127				
87	Type of Fuel Used	NA*				
	Amaly	uis Results of Flue Gas				
51. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
4	Particulate Matter	17	mg/Nm ³	30		

[&]quot;NA: Not Applicable



Checked By: Mr. Pankaj Barot, ENVIROCON

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

CIN: U26940ML2007PLC008298



STACK EMISSION MONITORING REPORT

August 2022

Name of Stack & Stack No.		11	Cooler	ESP(3)
Date of Monitoring			10.08.2022	
Stack Velocity of Flue gas		1	12.6 m/s	
Stack Temperature		1	484 °K	
Monitoring Period		3	40m	
Flow Rate		4	21.8 LP	M
Parameters	Results		Standard Limits	Unit
Particulate Matter	17.5		30	(mg/Nm³)

Analyzed By





Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digbos, Diet. Tinsukia, Assem – 786 171 Ph. 03781-264414, 9435006687, 8876028872 E-mail: anvirocon@rediffmail.com

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Beport No.: ENV/GSCL/22-29/50-08/65

Date | 02/09/2022

Order No.: FFE/7500001077

Date | 30/03/2023

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village-Musiang Lamare (Old), P. O.-Khilehrist, Meghalaya-793200

STACK EMISSION TEST RESULTS

01	Ted Ref. No.	ENEX_23-23/5E 04/05				
82	Date of Sampling	19.00,2022				
03.	Material of Construction	M.S.				
01	Stack Anaches To	Cooler E. S. P.				
15	Flor ConTemporature (°C)	221				
f4	Ext Velocity of Gas (m/sec)	12.4				
07	Type of Fuel Used	NA*				
	Amply	nia Results of Fine Gas				
SL No.	Parameter(s)	Result(s)	linit(x)	Limit(s)		
. 6	Particulate Matter	24	mg/Next	30		

^{*}NA: Not Applicable



Checked By: Mr. Pankaj Barui, ENVIROCON

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CIN: U26940ML2007PL0008298

STACK EMISSION MONITORING REPORT

August 2022

Name of Stack & Stack No.		12	Cement	Mill (4)
Date of Monitoring		34	11.08.2022	
Stack Velocity of Flue gas		1	12.7m/s	
Stack Temperature		10	356 °K	- 5
Monitoring Period		3	52m	
low Rate			16.5 LPM	
Parameters	Results		Standard Limits	Unit
Particulate Matter	16.3		30	(mg/Nm³)





Verifical By

Regd. Office and Works: Village - Musiang Lamare (Old), Khliehriat, Dist East Jaintia Hills, Meghalaya, Pin-793200 Marketing Office: 5A, 5T Floor, Shine -Tower, 57 Sati Jayamati Road, Arya Chowk, Rahaberi, Guwahati, Assam-781008

Recognised By Pollution Control Board, Assam

Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435006657, 8876028672 E-mail: envirocon@rediffmail.com

15/3 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-06/04

102/09/2022

Order No.: FFE/7500001077 30/03/2022

Report Issued To | GOLDSTONE CEMENTS LIMITED

Village- Musiang Lanusre (Old), P. O.:- Khilehriat, Meghataya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-08/04				
92	Date of Sampling	19.00.2022				
03	Material of Construction	M. S.				
04	Stack Attached Te	Coment Mill				
05	Flue Gas Temperature (°C)	67				
06	Exit Velocity of Gas (m/wer)	13.9				
87	Type of Fuel thed	NA*				
	Analy	sis Results of Flue Gas				
SL No.	Parameter(s)	Result(s)	Unit(s)	Limit(v)		
L	Particulate Matter	34	mg/Nos*	30		

"NA: Not Applicable



Checked By: Mr. Pankaj Barot, ENVIROCON

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CIN: U26940MLZ007PLC008298



STACK EMISSION MONITORING REPORT

August 2022

Name of Stack & Stack No.		- 8	CPP (5)	
Date of Monitoring		\$	11.08.2022	
Stack Velocity of Flue gas		\$	9.8m/s	
Stack Temperature		ż	374 °K	
Monitoring Period		10	45m	
Flow Rate		:	21.8LPM	
Parameters	Results		Standard Limits	Unit
Particulate Matter	36.5		50	(mg/Nm³)
Sulphur Dioxide (SO2)	489	+	600	(mg/Nm³)
Nitrogen Oxide (NOX)	224.3		300	(mg/Nm³)
A VIDA CONTRACTOR ON THE SEC.	1			

Analysed By



Verified By

Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinzukia, Assam - 198 171 Ph: 03751-284414, 9435008887, 8878028672 E-mail: anvirocon@reddfmail.com

tio 9001:2015 Centiled ISO 43001:2918 Certified

Report No.: ENV/GSCL/22-23/51-08/03

02/09/2022 Date

Order No.: PFE/7586001027 30/03/2022

Report Issued Tw : GOLDSTONE CEMENTS LIMITED

Village: Mustang Lamare (Old), P. O.:- Khilebriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GNCh/22-23/58-08/03				
02	Date of Sampling	Ince 3022				
0)	Managial of Construction	Nefractory Brick				
24	Stack Attached To	Captive Fower Plant (CPF)				
85	Flor Gas Trosperature (FC)	162				
26	Ext Valuably of Gas (10/144)	79				
02	Type of Fuel Used	Coal				
	Analy	six Results of Flue Gas				
51. No.	Patameter[A]	Result(s)	Unit(s)	Limit(s)		
4:	Particulare Matter	29	mg/Nm²	50		
и.	Sulptur Diessife (as SO ₁)	.468	468 mg/Not			
16.	Oxides of Nitrogen (si NO ₄)	219	mg/Nm³	300		



Checked By: Mr. Pankaj Baroi, ENVIROCON

MOTE

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Report No.: ENV/GSCL/22-23/N-Q8/01

Dute

182/09/2022

Order No.: FFE/7500001677 130/03/2022

GOLDSTONE CEMENTS LIMITED Report Issued To :

Village- Mustang Lamare (Old), P. O.:- iChlichriat, Meghalaya- 293200

NOISE LEVEL MEASUREMENT RESULTS

		OISE LEVEL MEAN			night	Time
		Date	Duy	time	Log	Limit
II. No.	Lucation(s)	Of Measurement	Log (dB-A)	(dB-A)	(dB-A)	(dfl-A)
		18.08.2022	64.7	75	56.7	-
1	Near Cool Mill	100	71.4	75	56.7	711
2	Mear CFP Area	18.00.2027		75	583	70
_	Near Goal Storage Yard	18.00.2072	64.8	75	200	70
3		18.00.2522	71.7	75	66.4	1971
	Near New Mill	VOX.51 (CAS)	73.6	75	67.9	70
1	Neur Cement Mill	19.08.2022	1000		40.9	70
_	100 & Mine's Office	19.88.2872	57.2	75		70
		19,69,2027	715	75	67.2	
7	CPP TG Ruiking	I mediatrici				



Checked By: Mr. Pankaj Barrol, ENVIROCON

I. Results reported new estables the time of and under the prevailing resultiness of measurement, NOTE

2. Resultanelor saly rathe particular parameters texted.

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Report No.: ENV/GSCL/22-Z1/FE-08/01

Date

102/09/2022

Order No.: FFE/500001077

130/03/2022

Report Issued To | GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehrat, Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

SI. No.	Locations	Date of Sampling	Results for SPM (pg/m²)	Limits (µg/m²)
01	Fly-ash Storage Section	10.09.7072	#76	5000
112	Coal Storage Section	18.08.2622	621	2000
63	Limentone Morage Section	19.00.2022	1618	5000
04	General Packing Section	19.08.2022	2192	5000

Analysia Protocol: 15.5 1.82



Checked By: Mr. Pankaj Baroi, ENVIROCON

MOTE

). Results reported are valid at the time of and under the provading conditions of measurement.

I. Booulis refer only to the particular parameters terred.

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Envirocon Building, LO.C.L (ACD) New Market P.O.: Diphot, Dist.: Tinsultis, Assum - 786 171 Ph: 03751-284414, 9435008657, 8676026673 E-mail: envirocon@rediffmail.com

ISO 9001:0015 Cyntified. ESC) 43801:2019 Certified

Report No.: ENV/GSCL/22-23/WW-08/02

±02/09/2022 Date

Order Ninz Date:

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Mustang Lamare (Old), P. C.:- Khliehrist, Meghalaya- 793260

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

GSCL/22-23/WW-2209/07

Sample Type/Source:

Waste Waste (Treated)/CPP N-Pit Outlet

Sample Collected By

Representative of ENVIROCON

Sample Collected On Sample Received On 22-08-2022 24.00.2022

10.

out want.

Free Amnunia (as 1914)

lysis Prono		1	Result(x)	(As Per CPCB Standards)
St. No.	Parameter(s)	(hint(s)	Haran City	55-90
		-	6.68	shall not exceed S Cabove the
-	F31	90	26.7	receiving water temperature
2.	Temperature	-	23	100
3.	Timal Suspended Solids	mg/l	22	30
6.	Buchemical Oxygen Demand	mg/l		250
3.	Chemical Oxygen Demand	evg/l	87	10
6.	OU & Greene	mg/l	e4.0	1.0
-	Total Residual Chiarine	mg/l	×0.181	
- 0	Control Contro	mp/I	6.1	50
- 8.	Ammoutal Navogra (as N)	mg/l	29	100
19.	Total Kjeldahi Rarupen (44 NHs)	100	+0.01	5.0

ergt/F



Checked By: Mr. Pankaj Baros, ENVIROCON

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Report No.: ENV/G5CL/22-23/WW-88/01

Date : 02/09/2022

Order No.: FFE/7500001077

Date |30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Mustang Lamare (Old), P. G. - Khlishriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample But, No.

G501/22-23/WW-2208/01

Sample Typy/Sourm

Waste Water (Treated)/ETF Dutlet

Sample Collected By

Representative of ENVIROCON

Sample Collected On Sample Received On 22.00.2022 24.00.2022

rein Prostoci		Delt(s)	Result(s)	(As Per CPCS Standards)
SI, No.	Parameter(s)	Desiritas	STATE STATE	55-50
12/11/20			6.76	The most Sic above the
- Ai	nit .	90	24.9	receiving water transportation
2.	Temperature	76		100
7.	Total Suspended Solids	ms/l	35	30
		ng/t	24	
1.	Biochemical Oxygen Demand	mg/f	151	250
15.	Chestical Gorgen Demand		+4.0	13
n.	ON & Company	ng/l	=0.01	1.0
7.	Tetal Residual Chlorina	ing/f		10
- No.		mg/l	6.5	180
8.	Americal forogen (as N)	ngt	13	
9.	Tartal Kjeldahil Norrigen (as Nits)		40.03	5.0
10.	Free Americala (as #84)	/tgn		



Checked By: Mr. Pankaj Rarot, ENVIROCON

SOTT

L, Results reported and valuable the time of and order the proceeding small times of weathermosts.

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15O 9001:2015 Certified ISO 45001-2015 Certified

Report No.: ENV/GSCL/22-23/DW-06/01

+02/09/2022

Order No.: FFE/7500001077 130/03/2022 Date:

Report Issued To :

GOLDSTONE CEMENTS LIMITED

Village- Mustang Lamare (Old), P. O .: - Whilehelat, Meghalaya+ 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSOL/22-23/DW-2208/08

Sample Searce: Areaporna Mess

Sample Type: Drmking Water

Collected On 22-06-2022

Beorbard Os 24-09-2027

Callacted By : Emirocon Representative

Parameters		Acceptable Limit*	in the Aluence of Alternate Source
Contract to the Contract of th		- 1	15
Hazen Units, Max	11	Agreeable	Agressble
	Oduuriess	Agreeafrie	Agrecable
	Acorytable	Agreeme	5
ty, NTU, Max	0.7	65-85	No Relaxation
	6.97	500	2000
tonolyest Solids, mg/L Max	69	0.03	0.2
ium (as Al), mg/t, Max.	ND	0.5	1.0
(as II), mg/L Max.	ND	75	200
n (as Ca), mg/l, Max	29	250	1000
le (as CI), mg/L Max	7,1	0.85	1.5
(as Cu), mg/L Max	ND	1.0	1.5
les (as F), mg/l, Max	ND.	0.2	1
nidual Chiarme, mg/l. Min	ND	0.3	No Releasion
s.Fe), mg/l, Max	0.011		100
stem (as Mg), mg/l, Man	1	30	0.3
condendary Mark mar/L Man	ND	0.1	15
	ND		No Relaxation
	0.2		400
Constitution of the Consti	ND		0.002
Late Scide, only Control College College Management Control College Co	ND	0.001	-Cuntimes-
6	rse (as Mn), mg/l, Max 2n), mg/l, Max as NOs), mg/l, Max as SOs), mg/l, Max Componds (as Gill-OH), mg/l, Max.	rse (as Mn), rig/L Max. ND 2n), rig/L Max. ND as NO ₁), rig/L Max. ND as SO ₄), rig/L Max. ND	Sec Jan Min Mg Max

*Liests as per 15 14500-2012

Analysis Protomit IS 3825 ND: Not Detected



Checked By: Mr. Pankaj Barot, ENVIROCON

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Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assum - 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: unvirocon@rediffmail.com

ISO 9001:2015 Certified ISO 41001:2016 Certified

Report No.: ENV/GSCL/22-23/DW-08/01

Date

102/99/2022

Order No.: FFE/7500001077 :30/83/2022 Date

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village-Muniang Lamure (Old), P. O.:- Khliehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/22-23/DW-2208/01

Sample Source : Annaporna Mess

Sample Type: Drinking Water

Collected Ov 22-08-2022

Received On 24-08-2022

Collected By : Environmen Representative Hall of Street Page

illected On	22-08-2022 Received	Results	Acceptable Limit*	in the Abernce of Abernate Source
St. No.	Parameters		200	000
21.	Total Wkalinity(as CaCOs), mg/l, Max	- 51	200	600
22.	Total Hardness, (as CaOh), mg/l, Mas	28	200	No Relatestion
23.	Cadmum (so Cd), mg/l, Max.	ND .	0.003	No Relaxation
	Cyanide (as CN), mg/L Mxx.	160	0.05	No Helasation
24.		ND .	0.01	No Beliagmon
25.	Load (as Pb), mg/L Mus.	ND	6.001	No Belisative
26.	Mercury (se Hg), mg/L Max.	ND	0.01	No Releasement
27.	Seimmum (as Se), mg/L Mas-	ND	0.05	
28.	Total Chromium, (as Cr), mg/L Max	100	0.2	1.0
29.	Anionic Detergents (as MRA5), mg/l	ND	0.01	0,05
30.	Total Arsenic (an Ar), mg/l, Man	ND	0.05	No Relaxation
31.	Total Chromium, (ns Cr), mg/L Max	ND	Absent	TriasedA.
	Faecal Californis/ 100 ml	NE.	Abaent	Absent
32.	E. Coll / 100 ml	NIL	August	-End of Report-

*Limits in per IS 10500:2012

Analysis Protospi: 15 3025 ND: Not Detected

Remarks: Drunking water from the abuse source is in for dresieng.



Checked By: Mr. Pankaj Barei, ENVIROCON

NOTE

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- 2. Results refer only to the particular parameters tested.
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Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

ISO 9001-2215 Centified ISO 45001/2018 Certified

Report No.: ENV/GSCL/22-23/SW-08/01

Date

106/09/2022

Brder No.: \$4\$7500001077 30/03/2022

Report Issued To | GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O. - Khliehriat, Megiolaya-793200

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : 6501/2022/5W-2208/01

Sample Source: Plant Nata Upotreum

Sample Type | Surface Water

Collected On 22-08-2022

Received On - 24-88-2022

Collected By : Enversion Representative

SL No.	Parameters	Results	Limits (15)0500-2012)
			5
1.	Colour, Hapon Units, Max.	1	Agryesble
2.	Odour	Agreeable	
1.	Temperature	27.4	65-85
4.	pH Value	6.68	-
5.	Suspended Solids	27	500
6.	Total Dismired Solids, mg/l, Max.	132	-
7.	Comductivity, µ5/cm	231	
E	Dissilved Oxygen, mg/l, Min.	4.5	
9.	Burchemical Oxygen Demand, mg/l, Max.	7	
10.	Chemical Degen Demand, mg/i, Max.	38	
	Oil and Grusse, mg/L Max.	# E.D	0.2
11.	Residual Orbinies, mg/L Min.	+0.01	200
22.	Total Hardness (as CaCOs), mg/l, Max.	25	.75
13.		1	30
14.	Calcium (as Ca), mg/l, Max.	- 41	0.3
15.	Magnesium (as Mg), mg/l, Max.	0.05	-
16.	Iron (se Fe), reg/l, Max.	8.2	
17.	Amsterical Narugen (as N), reg/L Max.	34	
18.	Total Kjektahi Narrogen (as NHs), mg/l, Max. Free Ammonia (as NHs), mg/l, Max.	wp.01	Analysis Protonii



Checked By: Mr. Pankaj Barot, ENVIROCON

NOTE

 \pm Results reported are valid at the time of and under the prevailing conditions of magnifument.

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ISO 9001:3015 Certified ISO 43031:2015 Centiled

Report No.: ENV/GSC1,/22-23/SW-00/02

Date

:06/09/2022

Order No.: \$FE2500001977 1 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamore (Old), P. O. - Khlichriot, Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Bel. No.: 6503,/2022/5W-2208/62

Sample Source : Plant Nata Downstroom

Sample Type : Surface Water

Collected On : 22-08-2022

Received On 24-08-2022

Collected By : Environm Representative

Limits (15 10500-2012) 51, No. Results Colour, Hazen Units, Max. Agreeable Agrematrio ž Odour 27.4 1 Temperature 65-85 6.72 4 pit Value 31 Suspended Solute 5 500 t38 Total Disselved Solids, mg/L Max. ñ 235 Conductivity, µ5/cm 4.9 Dissolved Osygen, mg/l, Min. n. 5 Biochemical Oxygen Demand.mg/l, Max. ů. 31 Chemical Oxygen themand, mg/L Man. 10. 24.0 Oil and Greate, eig/L Max. 11. 0.2 +0.01 Residual Ovlorine, mg/l, Min 12 200 22 Total Handness (as CaCOs), mg/l, Max. 13. 75 6 Calzium (as Ca), mg/L Max. 14. 30 41 Magnessum (so Mg), mg/l, Max. 15 0.3 9.97 fron (as Fe), mg/l Max. 16 7,8 Ammunical Nitrogen (as N), mg/l, Max. 17 29 Tietal Kjeldahl Nitrogen (an NHs), ing/l, Max. 16. +0.01 Free Ammunia (as NH₂), erg/l. Mas. 19.

Analysis Prototol 15 3025



Checked By: Mr. Pankaj Baros, ENVIROCON

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No: GSCL/EHS/2022-23/30 Dated: 01.11.2022

To,
The Member Secretary,
Meghalaya State Pollution Control Board,
Arden, Lumpyngngad,
Shillong-793014.

Sub: Submission of Monthly Environmental Monitoring Reports - SEPTEMBER 2022.

Dear Sir / Madam,

With reference to the subject as cited above, we are herewith submitting Monthly Environmental Monitoring Reports for the month of SEPTEMBER 2022.

The test reports are enclosed.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully.

For Goldstone Cements Ltd.

Authorized Signatory

Encl: Environmental Monitoring Reports - SEPTEMBER 2022.



Goldstone Cements Limited
CIN No.: U26940ML2007PLC008298



Envirocon Building, 1.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008651, 8876028672

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/AA-09/01

Date : 07/10/2022

Order No. : FFE/7500001077 Date : 30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village: Musiang Lamare (Old); PO: Khliehriat, Meghalaya- 793200

AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS ↓	Date of Sampling	PM 2.5 (μg/m³)	PM 10 (μg/m³)	SO ₂	NO ₂ (μg/m³)	NΗ ₃ (μg/m ³)	CO (mg/m³)	Ο ₃ (μg/m³)	8(a)P (ng/m³)	C ₆ H ₆ (μg /m ³)	Ni (ng/m³)	As (ng/m³)	Pb (μg/m³)
LIMITS ->	-	60 (24 hrs. Average)	100 (24 hrs. Average)	B0 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Near CPP (Water Reservoir)	07.09.2022	23.9	41.7	5.9	7.9	12.1	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near CCR (Material Yard)	06.09.2022	26.4	44.9	5.3	8.3	10.4	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near Guest House (Yamuna Sadan)	06.09.2022	21.6	35.3	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Residential Colony	07.09.2022	19.3	37.1 •	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



Checked By Pankaj Baroi, ENVIROCON

NOTE

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AMBIENT AIR QUALITY MONITORING RESULTS

September - 2022

		Parameters Results					
Stations Name	Date of	PM _{2,5}	PM ₁₀	SO ₂	NO ₂		
		Limit 60 µg/m³	Limit 100 µg/m³	Limit 80 µg/m³	Limit 80 μg/m³		
Near CPP Water Reservoir	12.09.2022	37.2	46.5	5.2	8.9		
Near CCR Material Yard	13.09.2022	35.7	44.9	5.8	8.5		
Near Guest House (Yamuna Sadan)	14.09.2022	15.3	32.6	<5.0	<6.0		
Residential Colony	15.09.2022	16.1	38.7	<5.0	<6.0		

Analyzed By



Verified By



AMBIENT AIR QUALITY MONITORING RESULTS

September - 2022

		Parameters Results					
Stations Name	Date of Monitoring	PM _{2.5}	PM ₁₀	SO2	NO ₂		
		Limit 60 µg/m³	Limit 100 µg/m³	Limit 80 µg/m³	Limit 80 µg/m ³		
Near CPP Water Reservoir	19.09.2022	39.5	56.2	5.9	10.9		
Near CCR Material Yard	20.09.2022	43.9	57.6	5.9	12.5		
Near Guest House (Yamuna Sadan)	21.09.2022	44.9	39.4	<5.0	<6.0		
Residential Colony	22.09.2022	17.9	35.1	<5.0	<6.0		

Analyzed By



Vertically



AMBIENT AIR QUALITY MONITORING RESULTS

September-2022

Stations Name	Date of Monitoring	Parameters Results					
		PM _{2.5}	PM ₁₀	SO2	NO ₂		
		Limit 60 μg/m³	Limit 100 µg/m³	Limit 80 μg/m³	Limit 80 µg/m ³		
Near CPP Water Reservoir	26.09.2022	39.6	45.1	7.2	11.8		
Near CCR Material Yard	27.09.2022	38.4	55.6	7.3	13.2		
Near Guest House (Yamuna Sadan)	28.09.2022	25.3	38.2	<5.0	<6.0		
Residential Colony	29.09.2022	16.8	36.7	<5.0	<6.0		

Analyzed By



Verified By



Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-09/05

Date :31/10/2022

Order No.: FFE/7500001077 Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Vill.: Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL	/22-23/SE-09/05	
02	Date of Sampling	06.09.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Ra	w Mill and Kiln	
05	Flue Gas Temperature (°C)		188	
06	Exit Velocity of Gas (m/sec)		17.72	
07	Type of Fuel Used	Coal		
	Analysis Res	sults of Flue Gas		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
L	Particulate Matter	11.8	mg/Nm³	30
n.	Sulphur Dioxide (as SO ₂)	414	mg/Nm³	1000
IIIL.	Oxides of Nitrogen (as NO _x)	198	mg/Nm³	600
IV.	Oxygen (as O ₂)	12.9	% V/V	==
V.	Hydrogen Chloride (as HCI)	2.4	mg/Nm³	10
VI.	Hydrogen Fluoride (as HF)	BDL [MDL: 1.0]	mg/Nm³	1
VII.	Mercury (as Hg)	BDL [MDL: 0.001]	mg/Nm³	0.03
VIII.	Hg and its compounds	BDL [MDL: 0.001]	mg/Nm³	0.05
IX.	Cd + Tl and their compounds	BDL [MDL: 0.001]	mg/Nm³	0.05
X.	Sb+As+Pb+Co+Cr+Cu+Mn+Ni+V+ and their compounds	0.058	mg/Nm³	0.5

BDL: Below Detectable Limit, MDL: Minimum Detectable Limit



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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Recognised By **Pollution Control Board, Assam** Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-09/06

:31/10/2022

Order No.: FFE/7500001077

Date

:30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Vill.: Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSCL/22-23/SE-09/06 06.09.2022			
02	Date of Sampling				
03	Stack Attached To	Raw Mill and Kiln			
04	Type of Fuel Used	Coal			
	Analy	sis Results of Flue Gas	25		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
1	Total Organic Carbon (as TOC)	9.16	mg/Nm³	10	
IL	Total Dioxins and Furans	BDL [MDL: 0.01]	ngTEQ/Nm³	0.1	

BDL: Below Detectable Limit, MDL: Minimum Detectable Limit



Checked By: Mr. Pankaj Baroi, ENVIROCON

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STACK EMISSION MONITORING REPORT

September 2022

Name of Stack & Stack No.		.1	Raw M	fill & Kiln (1)
Date of Monitoring		\$6 \$6	21.09	2022
Stack Velocity of Flue gas		3	17.0m	/s
Stack Temperature		2	412 °K	
Monitoring Period		:	37.97n	n
Flow Rate		6	26.2LP	M
Parameters	Results	1.000	andard imits	Unit
Particulate Matter	27.6		30	(mg/Nm³)
Sulphur Dioxide(SO2)	548	+ - ;	1000	(mg/Nm³)
Nitrogen Oxide (NOX)	286		600	(mg/Nm³)





yerified By



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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-09/04

Date

: 07/10/2022

Order No.: FFE/7500001077

Date

:30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	G	GSCL/22-23/SE-09/04				
02	Date of Sampling		08.09.2022				
03	Material of Construction		м. s.				
04	Stack Attached To		Coal Mill				
05	Flue Gas Temperature (°C)	3	60				
06	Exit Velocity of Gas (m/sec)		9.9				
07	Type of Fuel Used		NA*				
19	Analy	sis Results of Flue Gas					
SI. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s			
£	Particulate Matter	19	mg/Nm³	30			

^{*}NA: Not Applicable



Checked By: Mr. Pankaj Barol, ENVIROCON

NOTE:

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STACK EMISSION MONITORING REPORT

September - 2022

Name of Stack & Stack No.		: (Coal Mill (2)
Date of Monitoring		1 3	21.09.2022
Stack Velocity of Flue gas		;	9.8 m/s
Stack Temperature		į š	335 °K
Monitoring Period		: 6	51.05m
Flow Rate		: 3	.6.38 LPM
Parameters	Results	Standard Limits	Unit
Particulate Matter	24.2	30	(mg/Nm³)
Sulphur Dioxide(SO2)	598	1000	(mg/Nm³)
Nitrogen Oxide (NOX)	225.1	600	(mg/Nm³)





Verified By



Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified 15O 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-09/01

Date

: 07/10/2022

Order No.: FFE/7500001077 :30/03/2022 Date

GOLDSTONE CEMENTS LIMITED Report Issued To:

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya-793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GS	GSCL/22-23/SE-09/01			
02	Date of Sampling		07.09.2022			
03	Material of Construction		M, S.			
04	Stack Attached To	Cooler E. S. P.				
05	Flue Gas Temperature (°C)		235			
06	Exit Velocity of Gas (m/sec)		16.9			
07	Type of Fuel Used		NA*			
	Analy	sis Results of Flue Gas				
SL No.	Parameter(s)	Result(s)	Unit(s)	Limit(s		
i	Particulate Matter	24	mg/Nm³	30		

^{*}NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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GOLDSTONE CEMENTS LIMITED



STACK EMISSION MONITORING REPORT

September - 2022

Name of Stack & Stack No.		*	Cooler	ESP (3)
Date of Monitoring			23.09.2	022
Stack Velocity of Flue gas		;	17.57m	/s
Stack Temperature	8	:	502 °K	
Monitoring Period		*	50.78m	
Flow Rate		*	21.69 L	PM
Parameters	Results	5	Standard Limits	Unit
Particulate Matter	19.2		30	(mg/Nm³)









Recognised By Pollution Control Board, Assam

Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Order No.: FFE/7500001077

Date

:30/03/2022

Report No.: ENV/GSCL/22-23/SE-09/01

Report Issued To:

:07/10/2022

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSC	GSCL/22-23/SE-09/03			
02	Date of Sampling		08.09.2022			
03	Material of Construction		M. S.			
04	Stack Attached To		Cement Mill			
os	Flue Gas Temperature (°C)		81			
06	Exit Velocity of Gas (m/sec)		11.2			
07	Type of Fuel Used		NA*			
	Ana	lysis Results of Flue Gas				
SL No.	Parameter(s)	Result(s)	Unit(s)	Limit(s		
£.	Particulate Matter	15	mg/Nm³	30		

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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GOLDSTONE CEMENTS LIMITED



STACK EMISSION MONITORING REPORT

September - 2022

Name of Stack & Stack No.		1	Cement	Mill (4)
Date of Monitoring			23.09.20	022
Stack Velocity of Flue gas		20	11.7m/s	i.
Stack Temperature		*	374 °K	
Monitoring Period			112.99n	n
Flow Rate		8	8.85 LPN	И
Parameters	Results		Standard Limits	Unit
Particulate Matter	18.2		30	(mg/Nm³)

Analyzed By



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Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9438008657, 8876028672

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/SE-09/02

Date

:07/10/2022

Order No.: FFE/7500001077 :30/03/2022

Date

GOLDSTONE CEMENTS LIMITED Report Issued To:

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GSG	CL/22-23/SE-09/02		
02	Date of Sampling	07.09.2022			
	Material of Construction		Refractory Brick		
03		Capi	Captive Power Plant (CPP)		
04	Stack Attached To		101		
05	Flue Gas Temperature (°C)	8.2			
06	Exit Velocity of Gas (m/sec)				
07	Type of Fuel Used		Coal		
	Analy	sis Results of Flue Gas			
SL No.	Parameter(s)	Result(s)	Unit(s)	Limit(s	
i.	Particulate Matter	42	mg/Nm³	50	
		473	mg/Nm³	600	
II.	Sulphur Dioxide (as SO ₂)	218	mg/Nm ³	300	
tii.	Oxides of Nitrogen (as NO _x)		mg/Nm³	0.03	
iv.	Mercury (as Hg)	<0.01	W.B. L.		



Checked By: Mr. Pankaj Baroi, ENVIROCON

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GOLDSTONE CEMENTS LIMITED



STACK EMISSION MONITORING REPORT

September -2022

Name of Stack & Stack No.

CPP (5)

Date of Monitoring

24.09.2022

Stack Velocity of Flue gas

11.2m/s

Stack Temperature

379 °K

Monitoring Period

56 m

Flow Rate

22.4LPM

Parameters	Results	Standard Limits	Unit
Particulate Matter	26.3	50	(mg/Nm³)
Sulphur Dioxide (SO2)	465	600	(mg/Nm³)
Nitrogen Oxide (NOX)	245.6	300	(mg/Nm³)

Analysed By



Verified By



Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/N-09/01

Date

:07/10/2022

Order No.: FFE/7500001077 :30/03/2022

Date

GOLDSTONE CEMENTS LIMITED Report Issued To:

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

	r	hu.	Day	time	Night	Time
SI. No.	Location(s)	Date Of Measurement	Loq (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Coal Mill	06.09.2022	66.7	75	59.3	70
-	Near CPP Area	06.09.2022	70.2	75	62.7	70
2	Near Coal Storage Yard	07.09.2022	63.4	75	54.5	70
3		07.09.2022	72.6	75	66.1	70
4	Near Raw Mill	*	71.5	75	64.8	70
5	Near Cement Mill	07.09.2022	175503	75	52.4	70
6	HR & Mine's Office	08.09.2022	62.6	!	65.7	70
7	CPP TG Building	08.09.2022	69.7	75	65.7	1,90



Checked By: Mr. Pankaj Barol, ENVIROCON

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E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/FE-09/01

:07/10/2022

Order No.: FFE/500001077

:30/03/2022 Date

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

St. No.	Locations	Date of Sampling	Results for SPM (µg/m³)	Limits (µg/m³)
01	Fly-ash Storage Section	06.09.2022	761	5000
02	Coal Storage Section	07,09.2022	587	2000
03	Limestone Storage Section	07.09.2022	1742	5000
04	Cement Packing Section	06.09.2022	1831	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/WW-09/02

Date

:07/10/2022

Order No.: FFE/7500001077

Date

130/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

E-mail: envirocon@rediffmail.com

Sample Ref. No.

: GSCL/22-23/WW-2009/02

Sample Type/Source

: Waste Water (Treated)/CPP N-Pit Outlet

Sample Collected By

: Representative of ENVIROCON

Sample Collected On

: 20.09.2022

Sample Received On

: 21.09.2022

Analysis Protocol

: 15 3025

SI. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
TW.		-	6.61	5.5 - 9.0
2.	pH Temperature	oC	26.4	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	26	100
4.	Biochemical Oxygen Demand	mg/l	18	30
5.	Chemical Oxygen Demand	mg/l	62	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	5.6	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	22	100
10.	Free Ammonia (as NHs)	mg/1	<0.01	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/DW-09/01

Date

:07/10/2022

Order No.: FFE/7500001077

Date

:30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/22-23/DW-2009/01

Sample Source : Anapurna Mess

Sample Type: Drinking Water

Collected On : 20-09-2022

Received On : 21-09-2022

Collected By : Envirocon Representative

SI. No.	Parameters	Results	Acceptable Limit*	Permissible Limi in the Absence o Alternate Source
1.	Colour , Hazen Units, Max	1	5	15
2.	Odour Odour	Odourless	Agreeable	Agreeable
		Acceptable	Agreeable	Agreeable
3.	Taste	0.2	1	5
4	Turbidity, NTU, Max	6.86	6.5 - 8.5	No Relaxation
5.	pH_	73	500	2000
6.	Total Dissolved Solids, mg/l, Max	ND ND	0.03	0.2
7.	Aluminium (as Al), mg/l, Max.	ND	0.5	1.0
8.	Boron (as B), mg/l, Max.	27	75	200
9.	Calcium (as Ca), mg/l, Max		250	1000
10.	Chloride (as Cl), mg/l, Max	8.1	0.05	1.5
11.	Copper (as Cu), mg/L, Max	ND	1707576	1.5
12.	Fluorides (as F), mg/l, Max	ND	1.0	1
13.	Free Residual Chlorine, mg/L, Min	ND	0.2	
14.	Iron (as Fe), mg/l, Max	0.017	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	3	30	100
16.	Manganese (as Mn), mg/l, Max	ND	0.1	0,3
17.	Zinc (as Zn), mg/l, Max	ND	5.0	15
18.	Nitrate (as NO ₃), mg/l, Max	0.4	45	No Relaxation
19.	Sulfate (as SO ₄), mg/L Max	ND	200	400
20.	Phenolic Compunds (as C ₆ H ₅ OH), mg/l, Max.	ND	0.001	0.002
P.M.S.				Continued

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025 ND: Not Detected



Checked By: Mr. Pankaj Barol, ENVIROCON

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Pollution Control Board, Assam

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/DW-09/01

Date

:07/10/2022

Order No.: FFE/7500001077

: 30/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O .:- Khliehriat, Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/22-23/DW-2009/01

Sample Source : Anapurna Mess

Sample Type: Drinking Water

Callected On : 20-09-2022

Received On : 21-09-2022

Collected By : Envirocon Representative

SL No.	Parameters	Results	Acceptable Limit*	In the Absence of Alternate Source
31. 190	The second secon		200	600
21.	Total Alkalinity(as CaCO ₃), mg/l, Max	60	200	600
22.	Total Hardness, (as CaCO ₃), mg/l, Max	35	0.003	No Relaxation
23.	Cadmium (as Cd), mg/l, Max.	ND	POTAMISTICS.	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	ND	0.05	No Relaxation
POST HOLD	Lead (as Pb), mg/l, Max.	ND	0.01	No Relaxation
25.	Mercury (as Hg), mg/l, Max.	ND	0.001	M-0267774400-00-00-
26.		ND	0.01	No Relaxation
27.	Selenium (as Se), mg/l, Max.	ND	0.05	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	ND	0.2	1.0
29.	Anionic Detergents (as MBAS), mg/l		0.01	0.05
30.	Total Arsenic (as As), mg/l, Max	ND	0.05	No Relaxation
31.	Total Chromium, (as Cr), mg/l, Max	ND	40.00	Absent
32	Faecal Coliforms/ 100 ml	NIL	Absent	Absent
	E Coli / 100 ml	NIL	Absent	200
33.	E (011 / 100 IIII			-End of Report-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ND: Not Detected

Remarks: Drinking water from the above source is fit for drinking.



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/SW-09/01

Date

: 07/10/2022

Order No.1 FFE/7500001077

Date

130/03/2022

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/2022/SW-2009/01

Sample Source : Plant Nala Upstream

Sample Type : Surface Water

Collected On : 20-09-2022

Received On : 21-09-2022

Collected By : Envirocon Representative

1. No.	Parameters	Results	(IS 10500:2012)
	I BANGASANIA	4	5
l.	Colour, Hazen Units, Max.	Agrecable	Agreeable
2.	Odour	24.3	•
3.	Temperature	6.71	6.5 - 8.5
4.	pH Value	32	20
5.	Suspended Solids	155	500
6.	Total Dissolved Solids, mg/l, Max.	271	
7.	Conductivity, µS/cm	5.1	
8.	Dissolved Oxygen, mg/L Min.	5	
9.	Biochemical Oxygen Demand, mg/l, Max.	32	
10.	Chemical Oxygen Demand, mg/L Max.	<4.0	-
11.	Oil and Grease, mg/l, Max.	<0.01	0.2
12.	Residual Chlorine, mg/L Min.	24	200
13.	Total Hardness (as CaCO ₂), mg/l, Max.	7	75
14.	Calcium (as Ca), mg/L Max.		30
15.	Magnesium (as Mg), mg/l, Max.	<1	0.3
	Iron (as Fe), mg/l, Max.	0.027	
16.	Ammonical Nitrogen (as N), mg/l, Max.	6	
17.	Total Kjeldahl Nitrogen (as NH1), mg/l, Max.	26	
19.	Free Ammonia (as NHs), mg/l, Max.	<0.01	Analysis Protoco

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Barol, ENVIROCON

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Report No.: ENV/GSCL/22-23/SW-09/02

Date

:07/10/2022

Order No.: FFE/7500001077 :30/03/2022 Date

GOLDSTONE CEMENTS LIMITED Report Issued To:

Village- Musiang Lamare (Old), P. O.:- Khliehriat, Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/2022/SW-2009/02

Sample Source : Plant Naia Downstream

Sample Type : Surface Water

Received On : 21-09-2022

Collected By : Envirocon Representative

2. C 3. 1 4. 1	Parameters Colour, Hazen Units, Max. Odour Temperature pH Value Suspended Solids	3 Agrecable 24.3 6.83 44	5 Agreeable 6.5 - 8.5
2. C 3. 1 4. 1	Odour Temperature pH Value Suspended Solids	Agrecable 24.3 6.83	6.5 - 8.5
2. C 3. 1 4. 1	Odour Temperature pH Value Suspended Solids	24.3 6.83	6.5 - 8.5
3. 1	Temperature pH Value Suspended Solids	6.83	
4. 1 5.	pH Value Suspended Solids	229	
5.	Suspended Solids	44	The second secon
21	Suspended Solids		500
21	A Marie	169	
	Total Dissolved Solids, mg/l, Max.	283	
	Conductivity, µS/cm	5.3	
8.	Dissolved Oxygen, mg/l, Min.	6	*
	Biochemical Oxygen Demand, mg/l, Max.	44	*
9	Chemical Oxygen Demand, mg/l, Max.	<4.0	
10.	Oil and Grease, mg/l, Max.	<0.01	0.2
11.	Residual Chlorine, mg/l, Min.	30	200
12.	Total Hardness (as CaCO ₂), mg/l, Max.	9	75
13.	Calcium (as Ca), mg/l, Max.	<1	30
14.	Magnesium (as Mg), mg/l, Max.		0.3
15.	Magnesium (as mg), mg/	0,032	
16.	Iron (as Fe), mg/l, Max.	5	
1.7.	Ammonical Nitrogen (as N), mg/l, Max.	27	-
18.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max. Free Ammonia (as NH ₃), mg/l, Max.	<0.01	Analysis Protoco



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Report No.: ENV/GSCL/22-23/WW-09/01

pate : 07/10/2022

Order No.: FFE/7500001077

Date : 30/03/2022

Report Issued To: GOLDSTONE CEMENTS LIMITED

Village- Mustang Lamare (Old), P. O.:- Khliehrlat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

: GSCL/22-23/WW-2009/01

Sample Type/Source

: Waste Water (Treated)/ETP Outlet

Sample Collected By

: Representative of ENVIROCON

Sample Collected On Sample Received On : 20.09.2022 : 21.09.2022

Analysis Protocol

15 3025

SI. No.	Parameter(s)	Unit(s)	Result(s)	(As Per CPCB Standards)
31. NO.	Tarameter (s)		6.72	5.5 - 9.0
1.	pH		AND THE	shall not exceed 5°C above the
2.	Temperature	9C	26.2	receiving water temperature
	19-500 STATES	mg/I	35	100
3.	Total Suspended Solids	mg/l	20	30
4.	Biochemical Oxygen Demand			250
5.	Chemical Oxygen Demand	mg/l	151	10
6.	Oil & Grease	mg/l	<4.0	
	Total Residual Chlorine	mg/l	<0.01	1.0
7.		22.55	4.7	50
В.	Ammonical Nitrogen (as N)	mg/l		100
9.	Total Kjeldahl Nitrogen (as NH ₂)	mg/l	17	18500
10.	Free Ammonia (as NH ₂)	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/GSCL/22-23/WW-09/04

: 07/10/2022

Order No.: FFE/7500001077 :30/03/2022 Date

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Vill.: Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

: GSCL/22-23/WW-2009/04

Sample Type/Source

: Waste Water/Cooling Tower Blow Down

Sample Collected By

: Representative of ENVIROCON

Sample Collected On

: 20.09.2022

Sample Received On Analysis Protocol

: 21.09.2022 : 15 3025

3. No.	Parameters	Analysis Results	Units	Limit
-	Residual Free Chlorine	<0.01	mg/l	0.5
1.	San	<0.01	mg/l	1.0
2.	Zinc Total Chromium	<0.001	mg/l	0.2
3.	Phosphate	<0.01	mg/1	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/22-23/WW-09/05

: 07/10/2022

Order No.: FFE/7500001077 :30/03/2022 Date

Report Issued To:

GOLDSTONE CEMENTS LIMITED

Vill.: Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

: GSCL/22-23/WW-2009/05

Sample Type/Source

: Waste Water/Condenser Cooling Point

Sample Collected By

: Representative of ENVIROCON

Sample Collected On

: 20.09.2022

Sample Received On Analysis Protocol

: 21.09.2022 : 15 3025

SI. No.	Parameters	Analysia Mesalis	Units	Limit
A Vo	рH	6.63	ΓÆ	6.5 - 8.5
2.	Temperature	26.2	°C	Not more than 50 higher than th intake wate temperature
3.	Residual Free Chlorine	<0.01	mg/l	0.5



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Construction of Concrete Roads





Annexure – 2a,2b

Water Sprinkling

Annexure: 2a,2b



Water Sprinkling in roads through Permanent Water Sprinklers



Water Sprinkling through Permanent Water Sprinklers



Water Sprinkling through Permanent Water Sprinklers at Limestone Crusher



Water Sprinkling through Water Tanker In all internal Roads at Plant



Water Sprinkling through Water Tanker Inside the coal storage sheds



Water Sprinkling through Water Tanker In all internal Roads at Plant



Water Sprinkling through Water Tanker In all internal Roads at Plant



Water Sprinkling through Water Tanker In all internal Roads at Plant

PUC Certificates

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

Government of Uttar Pradesh

Date

04/06/2022

Time

16:44:43 PM

Validity upto

03/12/2022

UP12AT0525

Certificate SL. No.

UP01200550018955

Registration No.

UP12AT0525

Date of Registration

14/Aug/2015

Month & Year of Manufacturing

July-2015

Valid Mobile Number

*****4645

Emission Norms

EURO 3

Fuel

DIESEL

PUC Code

UP0120055

GSTIN

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Fees

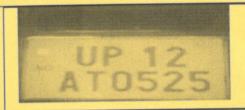
Rs.100.00(GST as applicable)

MIL observation

No

Vehicle Photo with Registration plate

60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decima places)
1	2	3	4	5
	Carbon Monoxide (CO)	percentage (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	СО	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
Cimosions	Lambda	•	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.85

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator

60mm x 20 mm

Parysyafan Sami

Auth. Samadary

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date : 17/07/2022 Time : 10:27:28 AM

Validity upto : 16/01/2023





Certificate SL. No. : TR00100210001386

Registration No. : NL01G9192
Date of Registration : 08/Jun/2011

Month & Year of Manufacturing : May-2011
Valid Mobile Number : ******5675

Emission Norms : BHARAT STAGE III

Fuel : DIESEL
PUC Code : TR0010021

GSTIN

Fees : Rs.100.00

(GST to be paid extra as applicable)

MIL observation : No

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
	Carbon Monoxide (CO)	percentage (%)	ta in	agricultural per
Idling Emissions	Hydrocarbon, (THC/HC)	ppm	THE LOCAL PROPERTY OF THE PARTY	
	CO and you at realist	percentage (%)	hetabers	A ACTION
High idling emissions	RPM	RPM	2500 ± 200	They were
emissions	Lambda	- 100/40	1 ± 0.03	20 - Carlot
Smoke Density	Light absorption coefficient	1/metre	2.45	1.01

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator

60mm x 20 mm

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SMOKE TING CEN IN

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

Government of Assam

Date : 18/06/2022 Time : 12:14:08 PM

Validity upto : 17/12/2022



Certificate SL. No. : AS00100810011795

Registration No. : AS01GC8792

Date of Registration : 30/Apr/2016

Month & Year of Manufacturing : January-2016

Valid Mobile Number : *****1645

Emission Norms : BHARAT STAGE II

Fuel : DIESEL PUC Code : AS0010081

GSTIN

Fees : Rs.130.00

(GST to be paid extra as applicable)

MIL observation :

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Valu (upto 2 decima places)
1	2	3	4	
	Carbon Monoxide (CO)	percentage (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	СО	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.32

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to

https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Water Reservoir



Greenbelt Development



Green Belt Area (Truck Parking Area):14376.5



Green Belt Area (Weigh Bridge to CPP East Side): 4632 SQM



Green Belt Area (Magazine Area): 11131.5 SQM



Green Belt Area (HSD Pump & Sr. Guest House East Side): 25148 SQM

CSR EXPENCES

Goldstone Cements Limited

Musiang Lamare (Old), East Jaintia Hills, Khliehriat, Meghalaya-793200

	CSR Plan							
SI.	Particualrs	Clinker Kiln (MTPA)	Cement Grinding (MTPA)	Captive Power Plant (MW)				
1	EC Approved Capacity	1.65	2.54	40				
2	Present Installed Capacity	0.56	0.88	10				
3	Percentage of Capacity Installed against EC Approved Capacity	33.9%	34.6%	25.0%				
4	Total Cost of the project as per EC with full capacity (Rs. In Crores)	565.00						
5	Proportionate Cost of the project for installed capacity at 34% (Rs. In Crores)		192.10					
6	Amount required to be earmarked towards CSR @ 5% as per specific condition xvi (Rs. in Crs.)		9.61					
7	Amount already spent as per annexure attached (Rs. In Crs.)		3.15					
8	Balance amount to be spent and year wise plan as per annexureattached (Rs. In Crs.)		6.46					

Goldstone Cements Limited

Musiang Lamare (Old), East Jaintia Hills, Khliehriat, Meghalaya-793200

CSR Annexure	(Rs. In Lacs)						
	Activity Wise Amount Spent						
Area of CSR Activities	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Health & Sanitation	0.00	0.00	0.15	9.93	0.00		10.09
Education	0.14	0.50	1.15	0.84	1.14	4.55	8.32
Emergency Relief	0.00	0.00	11.11	0.00	0.00		11.11
Rural development	3.60	10.95	11.51	7.19	6.79	9.21	49.25
Community Development	2.23	0.00	0.00	0.00	40.25		42.48
Rural Housing	12.48	50.20	32.40	36.45	61.79	31.50	193.33
Total	18.45	61.65	56.33	54.42	109.97	45.26	314.59
			Yearl	y Plan fo	r CSR		
	2022-23	2023-24	2024-25	2025-26	2026-27		Total
Health & Sanitation	10.00	12.50	15.00	17.50	20.00		75.00
Education	10.00	15.00	15.00	15.00	20.00		75.00
Emergency Relief	10.00	15.00	15.00	17.50	17.50		75.00
Rural development	15.00	17.50	17.50	20.00	25.00		95.00
Community Development	5.00	5.00	7.50	7.50	10.00		35.00
Rural Housing	50.00	55.00	60.00	65.00	75.00		305.00
Total	100.00	120.00	130.00	142.50	167.50		660.00

Goldstone Cements Limited. Musiang Lamare (Old), Khliehriat, Meghalaya.

Details of CSR Expences

Document Date	Type of Expenses	Details of CSR expences	Amount in Local Currency
28-04-2022	Rural Development	Local Basti Motor repair -Moosiang lamare	17,000.00
30-04-2022	Rural Development	Donation Apr-22	9,600.00
30-04-2022	Education	Donation Apr-22	32,000.00
30-04-2022	Education	Donation Apr-22	18,081.00
30-04-2022	Education	Donation Apr-22	800.00
30-04-2022	Rural Development	Donation Apr-22	35,002.00
30-04-2022	Rural Development	Donation Apr-22	1,600.00
09-05-2022	Rural Development	CSR contribution to Chiruphi Village	2,00,000.00
30-04-2022	Education	Salary of Village School teacher Apr-2022.	13,050.00
02-05-2022	Education	Study Material Distribution God Dream (CSR Expences)	25,740.00
31-05-2022	Education	Salary of Village School teacher May-2022.	13,050.00
17-06-2022	Rural Development	CSR Activity - Meghalaya	12,000.00
17-06-2022	Rural Development	CSR Activity - Meghalaya	6,000.00
30-06-2022	Education	Salary of Village school teacher for June'22	13,050.00
27-06-2022	Rural Development	CSR EXPENSES JUNE-22 (SONAPUR)	9,100.00
15-07-2022	Sports and Awareness	Donation for Final Football Match competetin Basti	65,000.00
15-07-2022	Sports and Awareness	CSR contribution to Dorbar Shnog, Welfare & Soprts	2,00,000.00
31-05-2022	Rural Development	Donation for the month of May-22.	57,600.00
31-07-2022	Education	Village Primary School Teacher Fee for July'22	13,050.00
29-08-2022	Education	DONATION FOR THE SCHOOL CONSTRUCTION AT BASTI	3,00,000.00
31-08-2022	Education	Salary of Village School teacher Aug-2022	13,050.00
12-09-2022	Rural Development	Donation paid thr. Mr.Raj Kumar to E.J.N. Council	2,000.00
30-09-2022	Education	CSR expenses salary for sep-22	13,050.00
31-05-2022	Rural Development	Donation expenses remaing portion	10,400.00
30-06-2022	Rural Development	Donation expenses remaing portion	1,60,000.00
31-07-2022	Rural Development	Donation expenses remaing portion	70,640.00
31-07-2022	Rural Development	Reverse entrry against sheet-2, Doc-1900002205	-40,000.00
31-08-2022	Rural Development	Donation expenses booking	14,080.00
30-09-2022	Rural Development	Donation expenses booking	90,660.00
		TOTAL	13,75,603.00

Rainwater Harvesting & Ground water recharge system



Rooftop rainwater collection and harvesting system at CPP water reservoir



Rooftop rainwater collection and harvesting system at CPP water reservoir



Rooftop rainwater collection and ground recharge system at CPP



Rainwater collection and ground recharge system at Guest House (Brahmaputra Sadan)

Pollution Control Expenses

Goldstone Cements Ltd.

Musiang Lamare (Old), Meghalaya.

Capital Investment Summary Sheet of Pollution Control Equipments

		<u>capital investment</u>				•		 Upto: 30.0	09.2022	
SI.No		Particulars	Supplier	Equipment	Mechanical	Civil	Electrical & Instrument	Transportation (Equipment, steel, Electricals,misscellaneous)	Total	Installed Date
1	Primary Crusher &	Bag Filters	Himen viro	4396200						2016
2	Secondary crusher Raw Mill	Raw Mill Bag House								2016
3	Cooler	Clinker Cooler ESP								2016
			Thermax	60683388						2016 2016
4	All material transfer points	De dusting Bag Filters								2016
5	CPP	ESP	Rieco							2016
6	Cement Mill	Cement Mill Bag House	Rieco	13878650						2016
7	Coal Mill	Coal Mill bag house	Thermax		40000000	52500000	21000000	1000000		2016
8	Packing House	Packing House Bag house	Flsmidth	3982307						2016
9	Packing plant	Bag Filter + Fans	Thyssenkrupp	2294403						2016
10	Raw Mill Bag House Cemet Mill bag house Clinker cooler	Fans for : (i) Raw Mill Bag House (ii) Cement Mill Bag House (iii) Clinker cooler ESP	airochem Flaktindia Solyvent- Flakt	5131605						2016
11		Missellaneous + Others	Flexocon/L&T	2280695						2016
12	All Stacks	SOX/NOX analyser and opacity meters etc	Forbes Marshall	3348688						2017
13	Coal Mill	DATA NORAMALISATION, DATA CONTROLLER, TEMPERETURE SENSOR, PRESSURE AND FLOW METER	NEVCO ENGINEERS PVT LTD.	500497						2019
14	Plant	STACK MONITORING KIT	Envirotech	124490						2019
15	Plant	Burial Pit & Sharp Pit		98999.95						2020
16	Plant	Hazardous waste storage Shed		230642.05						2019
17	Plant	LED DISPLAY BOARD	ADDSOFT	377600						2020
18	Plant	AMBIENT AIR Quality MONITORING SET	Envirotech	362175						2020
19	CPP	New coal shed (Mechanical, Civil, Materials)		19712197						2021
20	CPP	CPP Chemical shed (For storage of chemicals)		150000						2020
21	CPP	Instalation of Dust suppression system by using of N-pit water		34673						2021
22	Plant	Construction of Concrete road		3593564		1				2021
23	Plant Plant	RCC Septic tank for CCR EHS Lab		288531 34596		+				2021
		Coal Shed Extension at Cement Plant (In				+				
25	Plant	front of Store)		9885804						2020
26	Plant	Clinker Loading Shed		719349						2020
27	Plant	CPP Coal Shed garland RCC drain work		413555						2021-22
28	Plant	Laboratory Electric Oven & Water Bath	Ferrotek	24795						2022-23
		Commissioning/Supervision		4000000	40000000	52598999.95	21000000	10000000	127599000	
		Total		136547403	(APPROX)	(APPROX)	(APPROX)	(APPROX)	(APPROX)	
A		TOTAL INVESTMENT IN POLLUTIO	N CONTROL EQUIPMEN	T (APPROX) -	136547403					
В	TOTAL	I INVESTMENT IN CIVIL/MECHANICAL/TRANS	PORTATION OF POLLU	TION CONTRO	L EQUIPMENT ((APPROX)	I	123599000		
	TO'	 TAL CAPITAL INVESTMENT IN POLL	UTION CONTROL I	EQUIPMENT	T APPROX (A	⊥ A+B) :		260146403		

		Goldstone Cements Limite	ed, Meghalaya.				
		Recurring Pollution Control Exp	penditure for 2022-23				
			Period: 01.04.2022 to 30.				
SI No	Date	Particulars	Purchase Order/ Invoice Number	Quantity	Amount		
1	30.09.2022	INSULATOR HEATER, PROJECT NO: E200485, MAKE:THERMAX	IA/22-23/0012	2	7,821.00		
2	30.09.2022	DRY TYPE PANEL FILTER 4PLY (PURGE AIR FILTER), PROJECT NO: E200485, MAKE:THERMAX	IA/22-23/0012	1	5,393.70		
3	30.09.2022	INSULATOR HEATER HOOKUP, PROJECT NO: E200485, MAKE:THERMAX	IA/22-23/0012	12	14,580.00		
4	30.09.2022	SUPPORT INSULATOR GASKET, PROJECT NO: E200485, MAKE:THERMAX	IA/22-23/0012	24	1,09,987.20		
5	31.08.2022	DATA ACQUISITION MODULE, PART NO: ADAM-4017+, INPUT: MV, V,	KA11390727	12	19,114.38		
6		MA, OUTPUT: RS-485, MAKE: ADVANTECH ELECTRICITY EXPENSES FOR RUNNING THE POLLUTION CONTROL EQUIPME		-	1,21,17,355.09		
7	16-06-2022	Plant drainage water collection pond digging	Civil cost (Inhouse work)	72	1,22,400.00		
8	22-07-2022	Ash conditioner gear box replacement.	JT/TI/22-23/063 DT : 23.06.22	1			
	16/4,25/6,	ASIT Conditioner gear box replacement.	31/11/22-23/063 DT . 23.06.22	1	35,000.00		
9	21/8/2022	Ash conditioner saddle plates replacement & maint.	saddle plates	108	16,200.00		
10	27-06-2022	Flyash silo bagfilters replacement	bagfilter (stock material)	9	5,220.00		
11		ESP internal rapping hammer replacement (spare)		5	2,900.00		
12	12-07-2022	ESP shock bar repair		3	600.00		
13		ESP internal repairing.(manpower cost)			21,662.10		
14	22-05-2022	Damaged air lines replacement	40 nb MS ERW pipe 60 mtrs (cpp stock)	60	15,000.00		
15	05/08,16/08,1 7/08/22	3 nos ash vessel with fastners for ESP (Replaced)	SRHE / 2021-22 / 103	3	1,83,540.00		
16	12-08-2022	1 nos vessel with fastners for ECO+APH (Replaced)		1	38,760.00		
17	29-09-2022	Pneumatic Air On/Off valve replacement	01 nos replaced (stock material)	1	4,200.00		
18	05/08,16/08,1 7/08/22	Metalic bellow replacement	4 nos replaced (stock material)	4	64,636.00		
19		AHP Maintenance.(manpower cost+consumables)			21,910.40		
20	April 2022 to Sept 2022	Lime stone chips dosing in boiler to reduce SOx & NOx (with operating cost)			90,000.00		
21		N-Pit chemical tretment			2,520.00		
22	17-09-2022	N-Pit treated water discharge pipe replaced & repair(32NB MS pipe) MT		0.13	8,450.00		
23	17 03 2022	manpower cost+consumables cost			8,861.12		
24	April 2022 to Sept 2022	CPP-Electrical power consumption for ESP & APH (Apr 21 to Sept	21)		25,78,992.36		
25	21-Jun-22	Glens Data Transmission AMC	GL/22-23/06/163		58,410.00		
26		Salaries & Wages for Environmental activities (Env Team & Horticulture Team)			11,50,000.00		
27	April - Sept	Dust Suppression through Water Tanker			75,000.00		
	22				25,000.00		
28		ETP Maintainanance Expences Third party on viscommental manifesting	7500001077		7,45,760.00		
29	20.00.2022	Third party environmental monitoring	7500001077				
13		HGLS BOTTOM BAG FILTER 3 NOS V-BELT REPLACED CSP EXTRACTION BF BASE MODIFICATON	310000012200 310000011976		5,782.97		
14					13,209.94		
15 16		CSP TOP BF FAN DE BEARING REPLACED COAL MILL BAG HOUSE BAG INSPECTION & REPLACEMENT	31000011663		17,140.15		
		SURGE BIN BF BAG REPLACEMENT	310000011132 310000011021		14,462.31		
17		INSPECTION DOON DOOR FABRICATION FOR ESP FAN	310000011021		4,519.44 9 900 43		
18					8,800.42		
19		ESP FAN COUPLING BOLT REPLACEMENT WORK	310000010381		242.84		
20		COAL MILL BAG HOUSE PLATFORM EXTENSION WORK	31000009263		51,587.74		
21		RAW MILL BAG HOUSE BAG INSPECTION AND REPLACEMENT	310000010626		6,237.15		
22		RAW MILL BAG HOUSE RAL-8 DE BEARING REPLACED	31000009890		2,595.56		

310000008811

310000004271

3,8,12,14,19,22,31

2,467.45

19,443.93

21,656.00

2,04,012.52

₹ 1,79,21,431.77

23

24

26

27

03.06.2022 HGLS BOTTOM BF FAN V BELT REPLACED

April - Sept Manpower utilization for horticulture

Saplings & Tools

23.04.2022 BLENDING SILO BE BOTTOM BF BAG REPLACEMENT

Total Recurring Pollution Control Expenditure for 2022-23: (April 22 to September 22)

Environmental Parameters Display

Environmental Parameters Display Board



Environmental Parameters LED Display Board

