



BLACKTIGER
C E M E N T

HILA NA PAOGE

o/c

Ref No: GSCL/EHS/2019-20/06

Dated: 28.05.2019

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

Sub: Six monthly compliance of environment clearance letter of M/s Goldstone cements Ltd, Vill: Musiang Lamare (old), Khliehriat, East Jaintia Hills, and 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 Compliance report for the period 01.10.2018 to 31.03.2019** on Environmental Stipulations for our Cement Plant along with Captive Thermal 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-793014.

2. Member Secretary, Meghalaya State pollution Control Board, "ARDEN" Lumpynggad, Shillong-793014, Meghalaya.



Central Pollution Control Board
क्षेत्रीय निदेशालय उत्तर पूर्व शिलांग - ७९३०१४
Regional Directorate North East, Shillong - 793014
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO

DATED 31/05/19

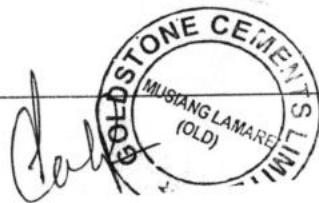
Goldstone Cements Limited

CIN No. : U26940ML2007PLC008298

COMPLIANCE REPORT (HALF YEARLY) from 1 st October 2018 to 31 st March 2019 ON ENVIRONMENTAL STIPULATIONS FOR CEMENT PLANT (CLINKER, 1.65 MTPA; CEMENT, 2.0 MTPA) ALONG WITH CAPTIVE THERMAL POWER PLANT (2 x 20 MW) AT VILL MUSIANG LAMARE (OLD), P.O.KHLIEHRIAT , DIST. EAST JAINTIA HILLS, MEGHALAYA OF M/S GOLDSTONE CEMENTS LTD – ENVIRONMENTAL CLEARANCE VIDE MOEF LETTER NO. J-11011/851/2008-IA II (I), DATED 30.09.2010.		
SL. NO	CONDITIONS	COMPLIANCE
	A. SPECIFIC CONDITIONS	
i	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. After expansion, limit of SPM shall be controlled within 50 mg/Nm ³ by installing adequate air pollution Control system. Electrostatic precipitators (ESP) to clinker cooler, bag house raw mill/kiln and bag filters to coal mill and cement mill. Low NOx burners should be provided to control NOx emissions.	<ul style="list-style-type: none"> •The Continuous Stack Monitor (Opacity Meters) is in working condition and online data transferred to CPCB & MSPCB. •ESP (Electrostatic Precipitators) for Clinker cooler, Bag house/Bag filters for Raw Mill / Coal Mill & other pollution control equipments were already installed in plant to keep SPM below 30 mg/Nm³ in Cement Plant stacks and 50 mg/Nm³ in Captive Power Plant stack as per our consent guideline.
ii	Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB). A feasibility report shall be prepared and submitted to the ministry and its Regional office at Shillong within 03 months from the date of issue of the letter.	<p>Hot gases generated from kiln are required for drying out moisture in Raw Mill and Fuel. Hence Kiln waste heat is being utilized partially in Raw Mill and partially in Coal Mill to meet our operational requirement. Some heat is lost in clinker cooler.</p> <p>Moreover, in our case the installed capacity of kiln is only 1700 TPD and after utilization of hot gases in Raw mill and Coal mill it becomes the remaining quantum of waste heat is not sufficient for setting up WHRB.</p> <p>We have also explored the Cement plants in the near vicinity and none of them have installed Waste Heat Recovery Plant.</p> <p>However, we have appointed consultant for study and submission of report.</p>
iii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November 2009 shall be followed.	The same is being followed during operation of plant. Ambient air quality monitoring is being done through Third party (Recognized laboratory). Ambient air quality parameters are found to be within the limit for all the parameters. <i>(Details attached in Annexure-1)</i>
iv	Secondary fugitive emission shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of practice issued by the CPCB in this regard should be followed.	<p>All material transfer points are provided with Bag filters to control fugitive emission.</p> <p>Started constructing concrete road in the plant. – <i>(Photographs are enclosed in Annexure:2)</i></p> <p>Water sprinklers installed in lime stone crusher and coal area and plant roads. <i>(Photographs are enclosed in Annexure:2a,2b,2c)</i></p> <p>Full time water tanker has been deployed in the plant as shown in <i>Annexure:2d</i></p> <p>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. <i>(Details attached in Annexure-1)</i></p>



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. It is ensured that without valid PUC no vehicle is allowed in plant premises. Few certificates enclosed for your reference. <i>(Details attached in Annexure-3)</i>
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 is much below the stipulated limit of 2,370 m ³ / day as our Plant has been designed as per close circuit arrangements for cooling water. Company has adopted "ZERO discharge" of waste water.
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 liters capacity in the west side; however 14 lac liters capacity reservoir is planned. <i>(Photographs are enclosed Annexure: 4&4a)</i>
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.	The stream is a seasonal stream. During rainy season, water quality will be Monitored. <i>(Photograph is enclosed in Annexure: 5)</i> 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.
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.
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).	Fly ash generated in our captive power plant is completely used in-house in manufacturing of Pozzolana Portland Cement (PPC)
xi	Effort shall be made to use low-grade lime, more fly ash and solid waste in the cement manufacturing.	Low grade limestone / Dolomite Stones are blended with high quality grade lime time. Fly ash generated in CPP is used in-house in manufacturing of Pozzolana Portland Cement (PPC). We are manufacturing around 80% PPC with blend of fly ash and around 20% OPC (approximately).



xii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision should be made accordingly.	We do not have significant quantum of high calorific hazardous waste except very insignificant quantity of Lubricating Oil and the same is disposed off as per defined rules in this regard.
xiii	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.	The green belt plan to achieve 33 % area coverage is already finalized. Coverage in major area has been in place. Plantation in balance area is under progress. Plantation of Native species is being done in consultation of DFO. 29.12% area is already under greenbelt. Balance and required plantation shall be done in phase manner. <i>(Greenbelt development Drawing is enclosed in Annexure :6)</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 27 th 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.	All of the points of public hearing have been addressed and complied. <i>(Details are mentioned in annexure-7)</i> 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.	Company has conducted CSR 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. <i>(The CSR activities with expenditure details are enclosed in annexure-8)</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.	Company has already constructed workers accommodations with all necessary infrastructure and facilities such as Fuel for cooking, Toilets & Bathrooms, safe drinking water, medical health care etc.
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 CTE and CTO are being adhered to.

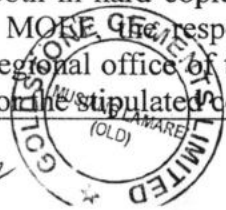


ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	There will be no expansion or modifications beyond permissions already granted without prior approval of MoEF.
iii	The gaseous emissions from various process units shall conform to the load / mass based standards notified by this Ministry on 19 th 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 newly commissioned unit with more sophisticated technologies is able to meet with the new standards of 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 month.	At present, monthly monitoring of ambient air quality is being carried out with the help of recognized laboratory. Online emission monitoring system is installed in all the major stacks. Compiled data are submitted to MOEF&CC, CPCB and MSPCB once in six months. We are also submitting the Environmental Monitoring reports once in every month to MOEF&CC, CPCB and MSPCB. <i>(Details are attached as per Annexure-1)</i>
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 bearing in the cement plant are 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. <i>(Details are attached as per Annexure-1)</i>
vii	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	We are working for occupational health surveillance to our workers as per factory act and will be submitted as soon as possible. However, the health care center is already available in our Plant Campus. Trained staff and visiting doctor appointed with essential medicine 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 constructed a reservoir of 1 lac liters capacity in the west side; however 14 lac liters capacity reservoir construction is under progress. <i>(Photographs are enclosed in Annexure:4&4a)</i>

A

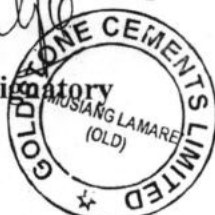


ix	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, 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. 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 following equipments apprx 22.41 Cr as capital cost. <ul style="list-style-type: none"> • ESP and bag houses are installed. • Material transfer points bag filters installed to control fugitive dust • Sox & NOx analyzer and opacity meters have been installed to monitor the emission and data transmission to CPCB server. We have invested approx Rs. 2.01 Cr amount towards recurring cost for environment pollution control measures. <i>(Details are enclosed in annexure: 9)</i>
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.	Has been implemented. 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 , NO _x (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 has been installed near company main gate. <i>(Photograph is enclosed in annexure-10)</i> The EC and six monthly EC compliance reports are shown 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 &CC, respective Zonal office of CPCB and the SPCB. The Regional office of this Ministry at Shillong / CPCB /SPCB shall monitor the stipulated conditions.	Six monthly monitoring data are being Submitted to MoEF&CC, CPCB and MSPCB periodically. <i>(Reports are enclosed in annexure-11)</i>

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xiv	<p>The environmental statement for each financial year ending 31st 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.</p>	<p>Environmental Statement (Form V) for the year 2017-18 has been Submitted to Regional office of the State Pollution Control Board, MoEF and CPCB. <i>(Details attached as per Annexure-12)</i></p> <p>The process shall be followed for each FY.</p>
xv	<p>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.</p>	<p>Has been implemented.</p>
xvi	<p>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.</p>	<p>Followed the norms and land development work completed accordingly.</p>

For Goldstone cements Ltd.

[Handwritten Signature]
 Authorized Signatory


Ref: GSCL/EHS/ 2018-19/06

Dated: 17.11.2018

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

Central Pollution Control Board
 क्षेत्रीय निदेशालय उत्तर पूर्व शिलांग - ७९३०१४
 Regional Directorate - North East, Shillong - 793014
 पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
 Ministry of Environment, Forest & Climate Change, Govt. of

Sub: Submission of Monthly Environmental Monitoring Reports

RECEIPT NO

Sir,

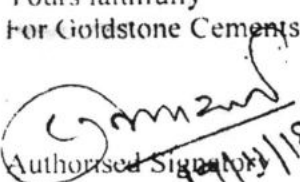
DATED 20/11/2018

With reference to the subject as cited above, we are submitting Monthly Environmental Monitoring Reports for the month of **October -2018**, which was monitored by Authorized Third Party M/s. ENVIROCON.

We request you to acknowledge the receipt.

Thanking You.

Yours faithfully
 For Goldstone Cements Ltd


 Authorised Signatory


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

2. The Ministry of Environment & Forests & Climate Change, Law-u-sib, Lumbatngen, Near MIC Workshop, Shillong-793014, Meghalaya.

Encl: Ambient air quality test report - October 2018
 Stack Emission test report - October 2018
 Drinking water analysis report - October 2018
 Process Fugitive Emission test report - October 2018
 Noise level measurement report - October 2018



Goldstone Cements Limited
 CIN No. : U26940ML2007PLC008298

Report No.: ENV/GSCL/AAQ/OCT/18-19/01
Date : 25/10/2018

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.:- Khliehriat
Meghalaya- 793200

AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s) ↓ Limit(s) →	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)
			60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	Near CPP	10.10.2018	--	62.8	10.8	5.6
		11.10.2018	32.4	--	--	--
2.	Near Secondary Crusher	10.10.2018	--	66.7	8.1	BDL
		11.10.2018	26.1	--	--	--
3.	Near Fly Ash Shed	10.10.2018	--	68.4	6.9	BDL
		11.10.2018	31.4	--	--	--
4.	Near Temple	10.10.2018	--	53.4	6.2	BDL
		11.10.2018	20.4	--	--	--

BDL: Below Detection Level
Analysis Protocol: IS 5182
Sampled & Analysed by: ENVIROCON, Digboi



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, Digboi Stores Building, 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.

Report No.: ENV/GSCL/SE/OCT/18-19/01

Date : 25/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/OCT/18-19/01		
02	Date of Sampling	10.10.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
05	Flue Gas Temperature (°C)	182		
06	Exit Velocity of Gas (m/sec)	12.8		
07	Type of Fuel Used	Kiln Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	23.4	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	765.4	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	349.7	mg/Nm ³	800



Checked By: Mr. Pankaj Barol, ENVIROCON

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Report No.: ENV/GSCL/SE/OCT/18-19/02

Date : 25/10/2018

GOLDSTONE CEMENTS LIMITED

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

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/OCT/18-19/02		
02	Date of Sampling	10.10.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Flue Gas Temperature (°C)	57		
06	Exit Velocity of Gas (m/sec)	8.7		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	28.2	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	355.2	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	177.4	mg/Nm ³	800

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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

envirocon

Recognised By
PCB, Assam & MSPCB, Meghalaya

Digboi Stores Building, New Market
Digboi, Assam - 786 171
Ph: 03751-264414, 9435008667, 8876028672
E-mail: envirocon@rediffmail.com
Website: www.envirocon.net.in



Report No.: ENV/GSCL/SE/OCT/18-19/03

Date : 25/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

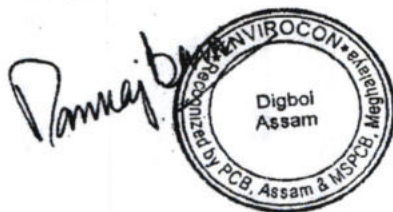
P. O.:- Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/OCT/18-19/03		
02	Date of Sampling	11.10.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Flue Gas Temperature (°C)	216		
06	Exit Velocity of Gas (m/sec)	13.5		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	24.1	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	212.4	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	60.4	mg/Nm ³	800

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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

Report No.: ENV/GSCL/SE/OCT/18-19/04

Date : 25/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

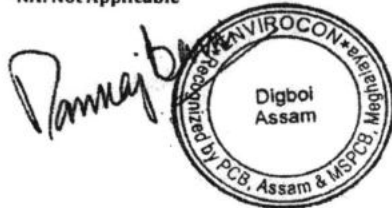
Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/OCT/18-19/04		
02	Date of Sampling	11.10.2018		
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)	11.4		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	27.1	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL	mg/Nm ³	800

BDL: Below Detection Limit

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/OCT/18-19/05

Date : 25/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/OCT/18-19/06		
02	Date of Sampling	12.10.2018		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Flue Gas Temperature (°C)	84		
06	Exit Velocity of Gas (m/sec)	8.9		
07	Type of Fuel Used	Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	31.6	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	514.6	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	194.8	mg/Nm ³	300



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Report No. : ENV/GSCL/DW/OCT/18-19/01
Date : 25/10/2018

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.- Khliehriat
Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

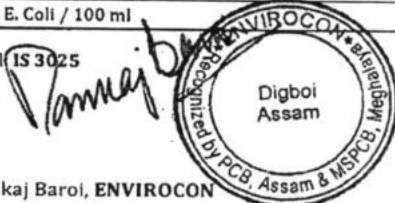
Sample Type : Drinking Water
Collected By : Jointly by Envirocon & Client

Sample Source : Canteen
Collected On : 12.10.2018

Sl. No.	Parameters	Results	Desirable Limit (IS: 10500)
1.	Colour, Hazen Units, Max	<1	5
2.	Odour	Odourless	Agreeable
3.	Taste	Acceptable	Agreeable
4.	Turbidity, NTU, Max	0.15	1.0
5.	pH	7.2	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	142	500
7.	Aluminium (as Al), mg/l, Max	ND	0.03
8.	Boron (as B), mg/l, Max	ND	0.5
9.	Calcium (as Ca), mg/l, Max	22	75
10.	Chloride (as Cl), mg/l, Max	3.2	250
11.	Copper (as Cu), mg/l, Max	ND	0.05
12.	Fluorides (as F), mg/l, Max	ND	1.0
13.	Free Residual Chlorine, mg/l, Min	ND	0.2
14.	Iron (as Fe), mg/l, Max	0.096	0.3
15.	Magnesium (as Mg), mg/l, Max	3.4	30
16.	Manganese (as Mn), mg/l, Max	ND	0.1
17.	Zinc (as Zn), mg/l, Max	ND	5.0
18.	Nitrate (as NO ₃), mg/l, Max	ND	45
19.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20.	Sulfate (as SO ₄), mg/l, Max	17	200
21.	Total Alkalinity (as CaCO ₃), mg/l, Max	76	200
22.	Total Hardness, (as CaCO ₃), mg/l, Max	6.3	200
23.	Cadmium (as Cd), mg/l, Max	ND	0.003
24.	Cyanide (as CN), mg/l, Max	ND	0.05
25.	Lead (as Pb), mg/l, Max	ND	0.01
26.	Mercury (as Hg), mg/l, Max	ND	0.001
27.	Selenium (as Se), mg/l, Max	ND	0.01
28.	Total Arsenic (as As), mg/l, Max	ND	0.01
29.	Total Chromium, (as Cr), mg/l, Max	ND	0.05
30.	Anionic Detergents (as MBAS), mg/l	ND	0.2
31.	Total Coliform, MPN/100 ml	NIL	10 Max
32.	Faecal Coliforms/ 100 ml	NIL	Absent
33.	E. Coli / 100 ml	NIL	Absent

Analysis Protocol IS 3025

ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/FE/OCT/18-19/01

Date : 25/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)


P. O.:- Khliehriat

Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
11.10.2018	Fly-ash Storage Section	2562	5000
11.10.2018	Coal Storage Section	988	2000
12.10.2018	Limestone Storage Section	1981	5000
12.10.2018	Cement Packing Section	2548	5000

Sampled & Analysed by: ENVIROCON, Digboi

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/NLM/OCT/18-19/01

Date : 25/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.- Khliehriat

Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 11.10.2018

Sl. No.	Location(s)	Day time		Night Time	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	72	75	64	70
2	Near CPP Area	70	75	63	70
3	Near Limestone Storage Yard	66	75	50	70
4	Near Coal Storage Yard	64	75	52	70
5	Near R. A. B. H.	73	75	62	70
6	Near Cement Mill	68	75	58	70
7	Near Administrative Building	63	75	53	70
8	Power House	74	75	69	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Ref: GSCL/EHS/ 2018-19/07

Dated: 27.11.2018

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

Sub: Submission of Monthly Environmental Monitoring Reports


Sir,

With reference to the subject as cited above, we are submitting Monthly Environmental Monitoring Reports for the month of **November -2018**, which was monitored by Authorized Third Party M/s. ENVIROCON.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully
For Goldstone Cements Ltd

Authorized Signatory


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

2. The Ministry of Environment & Forests & Climate Change, Law-u-sib, Lumbatngen. Near MTC Workshop, Shillong-793014, Meghalaya.

- Encl: Ambient air quality test report - November 2018
Stack Emission test report - November 2018
Drinking water analysis report - November 2018
Process Fugitive Emission test report - November 2018
Noise level measurement report - November 2018



Goldstone Cements Limited
CIN No. : U26940ML2007PLC008298

Report No.: ENV/GSCL/AAQ/NOV/18-19/01

Date : 24/11/2018

GOLDSTONE CEMENTS LIMITED

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

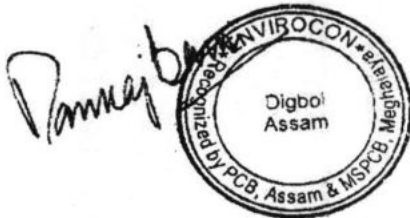
AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s) ↓	Date of Sampling	PM 2.5	PM 10	NO ₂	SO ₂
			(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
	Limit(s) →		60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	Near CPP	10.11.2018	--	58.2	8.3	4.2
		11.11.2018	29.4	--	--	--
2.	Near Secondary Crusher	11.11.2018	--	62.7	9.4	BDL
		12.11.2018	31.3	--	--	--
3.	Near Fly Ash Shed	11.11.2018	--	66.2	7.2	BDL
		12.11.2018	34.6	--	--	--
4.	Near Temple	10.11.2018	--	48.6	5.1	BDL
		11.11.2018	22.4	--	--	--

BDL: Below Detection Level

Analysis Protocol: IS 5182

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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ENVIROCON

Recognised By
PCB, Assam & MSPCB, Meghalaya

Digboi Stores Building, New Market
Digboi, Assam - 786 171
Ph: 03751-264414, 9435008657, 8876028672
E-mail: envirocon@rediffmail.com
Website: www.envirocon.net.in



Report No.: ENV/GSCL/SE/NOV/18-19/01
Date : 24/11/2018

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.:- Khliehriat
Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/NOV/18-19/01		
02	Date of Sampling	11.11.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Raw Mill		
05	Flue Gas Temperature (°C)	183		
06	Exit Velocity of Gas (m/sec)	14.2		
07	Type of Fuel Used	Kiln Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	21.4	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	695.9	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	317.9	mg/Nm ³	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/NOV/18-19/02

Date : 24/11/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.: - Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/NOV/18-19/02		
02	Date of Sampling	11.11.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Flue Gas Temperature (°C)	54		
06	Exit Velocity of Gas (m/sec)	10.6		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	18.8	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	318.3	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	176.9	mg/Nm ³	800

*NA: Not Applicable



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Report No.: ENV/GSCL/SE/NOV/18-19/03

Date : 24/11/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.- Khliehriat


Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/NOV/18-19/03		
02	Date of Sampling	12.11.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Flue Gas Temperature (°C)	205		
06	Exit Velocity of Gas (m/sec)	12.3		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	25.2	mg/Nm ³	30

*NA: Not Applicable

Pankaj Baroi



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Report No.: ENV/GSCL/SE/NOV/18-19/05

Date : 24/11/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.: - Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/NOV/18-19/05		
02	Date of Sampling	11.11.2018		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Flue Gas Temperature (°C)	98		
06	Exit Velocity of Gas (m/sec)	7.1		
07	Type of Fuel Used	Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	33.8	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	546.5	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	204.8	mg/Nm ³	300



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/NOV/18-19/04

Date : 24/11/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

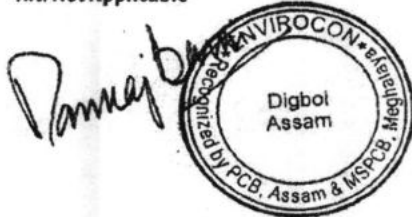
Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/NOV/18-19/04		
02	Date of Sampling	11.11.2018		
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)	10.6		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	26.1	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL	mg/Nm ³	800

BDL: Below Detection Limit

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/FE/NOV/18-19/01
Date : 24/11/2018

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.: - Khliehriat
Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
11.11.2018	Fly-ash Storage Section	2492	5000
11.11.2018	Coal Storage Section	1024	2000
12.11.2018	Limestone Storage Section	1872	5000
12.11.2018	Cement Packing Section	2624	5000

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/GSCL/DW/NOV/18-19/01
Date : 24/11/2018

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.:- Khliehriat
Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Type : Drinking Water
Collected By : Jointly by Envirocon & Client

Sample Source : Canteen
Collected On : 13.11.2018

Sl. No.	Parameters	Results	Desirable Limit (IS: 10500)
1.	Colour, Hazen Units, Max	<1	5
2.	Odour	Odourless	Agreeable
3.	Taste	Acceptable	Agreeable
4.	Turbidity, NTU, Max	0.17	1.0
5.	pH	7.4	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	152	500
7.	Aluminium (as Al), mg/l, Max	ND	0.03
8.	Boron (as B), mg/l, Max	ND	0.5
9.	Calcium (as Ca), mg/l, Max	24	75
10.	Chloride (as Cl), mg/l, Max	3.4	250
11.	Copper (as Cu), mg/l, Max	ND	0.05
12.	Fluorides (as F), mg/l, Max	ND	1.0
13.	Free Residual Chlorine, mg/l, Min	ND	0.2
14.	Iron (as Fe), mg/l, Max	0.098	0.3
15.	Magnesium (as Mg), mg/l, Max	3.6	30
16.	Manganese (as Mn), mg/l, Max	ND	0.1
17.	Zinc (as Zn), mg/l, Max	ND	5.0
18.	Nitrate (as NO ₃), mg/l, Max	ND	45
19.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20.	Sulfate (as SO ₄), mg/l, Max	21	200
21.	Total Alkalinity (as CaCO ₃), mg/l, Max	78	200
22.	Total Hardness, (as CaCO ₃), mg/l, Max	6.5	200
23.	Cadmium (as Cd), mg/l, Max	ND	0.003
24.	Cyanide (as CN), mg/l, Max	ND	0.05
25.	Lead (as Pb), mg/l, Max	ND	0.01
26.	Mercury (as Hg), mg/l, Max	ND	0.001
27.	Selenium (as Se), mg/l, Max	ND	0.01
28.	Total Arsenic (as As), mg/l, Max	ND	0.01
29.	Total Chromium, (as Cr), mg/l, Max	ND	0.05
30.	Anionic Detergents (as MBAS), mg/l	ND	0.2
31.	Total Coliform, MPN/100 ml	NIL	10 Max
32.	Faecal Coliforms/ 100 ml	NIL	Absent
33.	E. Coll / 100 ml	NIL	Absent

Analysis Protocol: IS 8025

ND: Not Detected

Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/NLM/NOV/18-19/01

Date : 24/11/2018

GOLDSTONE CEMENTS LIMITED

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

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 12.11.2018

Sl. No.	Location(s)	Day time		Night Time	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	71	75	66	70
2	Near CPP Area	72	75	64	70
3	Near Limestone Storage Yard	64	75	52	70
4	Near Coal Storage Yard	65	75	55	70
5	Near Raw Mill	69	75	64	70
6	Near Cement Mill	69	75	59	70
7	Near Administrative Building	65	75	55	70
8	Power House	71	75	67	70

Pankaj Baroi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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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.



Ref: GSCL/EHS/ 2018-19/10

Dated: 28.01.2019

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

Sub: Submission of Monthly Environmental Monitoring Reports

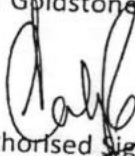

Sir,

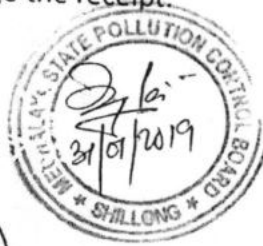
With reference to the subject as cited above, we are submitting Monthly Environmental Monitoring Reports for the month of December-2018, which was monitored by Authorized Third Party M/s. ENVIROCON.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully
For Goldstone Cements Ltd


Authorised Signatory




Central Pollution Control Board
केन्द्रीय निदेशालय उत्तर पूर्व शिलांग - ७९३०१४
Regional Directorate - North East, Shillong - 793014
पर्यावरण, वन एवं जलवायु परिवर्तन विभाग, भारत सरकार
Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO
DATED 28/01/19

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

2. The Ministry of Environment & Forests & Climate Change, Law-u-sib, Lumbatngen, Near MTC Workshop, Shillong-793014, Meghalaya.

- Encl: Ambient air quality test report - December 2018
Stack Emission test report - December 2018
Drinking water analysis report - December 2018
Process Fugitive Emission test report - December 2018
Noise level measurement report - December 2018



Goldstone Cements Limited
CIN No. : U26940ML2007PLC008298

Corporate Office
510, 5th Floor, Diamond Heritage,
16, Strand Road, Kolkata - 700001
P. 03 33 667060

Factory Office
Village Musiang Lamare(Old),
Khliehriat, East Jaintia Hills,
P. 03 33 667060

Sales & Marketing Office
5A, 5th Floor, Shine Towers, 57 Sati Jaymati Road
Arya Chowk, Rehabari, Guwahati, Assam 781008
P. 03 33 667060

Report No.: ENV/GSCL/AAQ/DEC/18-19/01

Date : 04/01/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s) ↓ Limit(s) →	Date of Sampling	PM 2.5	PM 10	NO ₂	SO ₂
			(µg/m ³) 60 (24 Hrs. Av.)	(µg/m ³) 100 (24 Hrs. Av.)	(µg/m ³) 80 (24 Hrs. Av.)	(µg/m ³) 80 (24 Hrs. Av.)
1.	Near CPP	18.12.2018	--	59.8	7.9	5.1
		19.12.2018	31.2	--	--	--
2.	Near Secondary Crusher	18.12.2018	--	63.4	9.2	BDL
		19.12.2018	29.7	--	--	--
3.	Near Fly Ash Shed	18.12.2018	--	64.2	6.9	BDL
		19.12.2018	30.1	--	--	--
4.	Near Temple	18.12.2018	--	47.6	5.5	BDL
		19.12.2018	23.7	--	--	--

BDL: Below Detection Level

Analysis Protocol: IS 5182

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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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.

Report No.: ENV/GSCL/SE/DEC/18-19/01

Date : 04/01/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.- Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/DEC/18-19/01		
02	Date of Sampling	18.12.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Raw Mill		
05	Flue Gas Temperature (°C)	171		
06	Exit Velocity of Gas (m/sec)	17.8		
07	Type of Fuel Used	Kiln Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	19.3	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	474.7	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	231.5	mg/Nm ³	800



Checked By: Mr. Pankaj Barol, ENVIROCON

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

Report No.: ENV/GSCL/SE/DEC/18-19/02

Date : 04/01/2019

GOLDSTONE CEMENTS LIMITED

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

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/DEC/18-19/02		
02	Date of Sampling	18.12.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Flue Gas Temperature (°C)	64		
06	Exit Velocity of Gas (m/sec)	10.6		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	26.4	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	385.5	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	158.8	mg/Nm ³	800

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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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.



ENVIROCON

Recognised By

PCB, Assam & MSPCB, Meghalaya

Digboi Stores Building, New Market
Digboi, Assam - 786 171
Ph: 03751-264414, 9435008657, 8876028672
E-mail: envirocon@rediffmail.com
Website: www.envirocon.net.in



Report No.: ENV/GSCL/SE/DEC/18-19/03

Date : 04/01/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/DEC/18-19/03		
02	Date of Sampling	18.12.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Flue Gas Temperature (°C)	216		
06	Exit Velocity of Gas (m/sec)	13.5		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	24.1	mg/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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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.



ENVIROCON

Recognised By
PCB, Assam & MSPCB, Meghalaya

Digboi Stores Building, New Market
Digboi, Assam - 786 171
Ph: 03751-264414, 9435008657, 8876028672
E-mail: envirocon@rediffmail.com
Website: www.envirocon.net.in



Report No.: ENV/GSCL/SE/DEC/18-19/04

Date : 04/01/2019

GOLDSTONE CEMENTS LIMITED

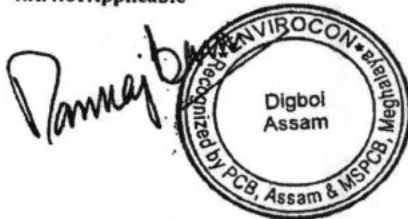
Village- Musiang Lamare (Old)
P. O.:- Khliehriat
Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/DEC/18-19/04		
02	Date of Sampling	19.12.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Flue Gas Temperature (°C)	66		
06	Exit Velocity of Gas (m/sec)	10.7		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	24.2	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL	mg/Nm ³	800

BDL: Below Detection Limit

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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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.

Report No.: ENV/GSCL/SE/DEC/18-19/05

Date : 04/01/2019

GOLDSTONE CEMENTS LIMITED


Village- Musiang Lamare (Old)

P. O.: - Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/DEC/18-19/05		
02	Date of Sampling	19.12.2018		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Flue Gas Temperature (°C)	87		
06	Exit Velocity of Gas (m/sec)	8.2		
07	Type of Fuel Used	Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	32.4	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	477.1	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	198.2	mg/Nm ³	300

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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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.

Report No. : ENV/GSCL/DW/DEC/18-19/01
Date : 04/01/2019

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.- Khillehriat
Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Type : Drinking Water
Collected By : Jointly by Envirocon & Client

Sample Source : Canteen
Collected On : 19.12.2018

Sl. No.	Parameters	Results	Desirable Limit (IS: 10500)
1.	Colour, Hazen Units, Max	<1	5
2.	Odour	Odourless	Agreeable
3.	Taste	Acceptable	Agreeable
4.	Turbidity, NTU, Max	0.15	1.0
5.	pH	7.2	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	166	500
7.	Aluminium (as Al), mg/l, Max	ND	0.03
8.	Boron (as B), mg/l, Max	ND	0.5
9.	Calcium (as Ca), mg/l, Max	26	75
10.	Chloride (as Cl), mg/l, Max	3.2	250
11.	Copper (as Cu), mg/l, Max	ND	0.05
12.	Fluorides (as F), mg/l, Max	ND	1.0
13.	Free Residual Chlorine, mg/l, Min	ND	0.2
14.	Iron (as Fe), mg/l, Max	0.08	0.3
15.	Magnesium (as Mg), mg/l, Max	3.3	30
16.	Manganese (as Mn), mg/l, Max	ND	0.1
17.	Zinc (as Zn), mg/l, Max	ND	5.0
18.	Nitrate (as NO ₃), mg/l, Max	ND	45
19.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20.	Sulfate (as SO ₄), mg/l, Max	25	200
21.	Total Alkalinity (as CaCO ₃), mg/l, Max	92	200
22.	Total Hardness, (as CaCO ₃), mg/l, Max	79	200
23.	Cadmium (as Cd), mg/l, Max	ND	0.003
24.	Cyanide (as CN), mg/l, Max	ND	0.05
25.	Lead (as Pb), mg/l, Max	ND	0.01
26.	Mercury (as Hg), mg/l, Max	ND	0.001
27.	Selenium (as Se), mg/l, Max	ND	0.01
28.	Total Arsenic (as As), mg/l, Max	ND	0.01
29.	Total Chromium, (as Cr), mg/l, Max	ND	0.05
30.	Anionic Detergents (as MBAS), mg/l	ND	0.2
31.	Total Coliform, MPN/100 ml	NIL	10 Max
32.	Faecal Coliforms/ 100 ml	NIL	Absent
33.	E. Coli / 100 ml	NIL	Absent

Analysis Protocol: IS 3025

ND: Not Detected

Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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Ref: GSCL/EHS/ 2018-19/11

Dated: 23.02.2019

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



Sub: Submission of Monthly Environmental Monitoring Reports

Sir,

With reference to the subject as cited above, we are submitting Monthly Environmental Monitoring Reports for the month of **January-2019**, which was monitored by Authorized Third Party M/s. ENVIROCON.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully
For Goldstone Cements Ltd


Authorised Signatory



- CC: 1. Regional Director, Central Pollution Control Board, Regional Directorate-North East, Lower Motinagar, Shillong-793014.
2. The Ministry of Environment & Forests & Climate Change, Law-u-sib, Lumbatngen, Near MTC Workshop, Shillong-793014, Meghalaya.

- Encl: Ambient air quality test report - January 2019
Stack Emission test report - January 2019
Drinking water analysis report - January 2019
Process Fugitive Emission test report - January 2019
Noise level measurement report - January 2019
Effluent Water Analysis report- January 2019

Central Pollution Control Board
केन्द्रीय निदेशालय उत्तर पूर्व शिलांग - ७९३०१४
Regional Directorate - North East, Shillong - 793014
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO

DATED 01/03/19

Goldstone Cements Limited
CIN No. : U26940ML2007PLC008298

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

Factory Office
Village Musiang Lamare(Old),
Khtiehriat, East Jaintia Hills,
Meghalaya - 793200

Sales & Marketing Office
5A, 5th Floor, Shine Towers, 57 Sati Jaymati Road
Arya Chowk, Rehabari, Guwahati, Assam 781008
P +91-361-2607071/72

Report No.: ENV/GSCL/AAQ/JAN/18-19/01
 Date : 03/02/2019

GOLDSTONE CEMENTS LIMITED
 Village- Musiang Lamare (Old)
 P. O.-: Khliehriat
Meghalaya- 793200

AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s) ↓ Limit(s) →	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)
			60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	Near CPP	23.01.2019	--	64.7	2.4	4.9
		24.01.2019	34.6	--	--	--
2.	Near Secondary Crusher	23.01.2019	--	68.4	7.7	BDL
		24.01.2019	25.2	--	--	--
3.	Near Fly Ash Shed	23.01.2019	--	65.2	6.6	BDL
		24.01.2019	30.5	--	--	--
4.	Near Temple	24.01.2019	--	55.6	6.8	BDL
		25.01.2019	22.7	--	--	--

BDL: Below Detection Level
 Analysis Protocol: IS 5182
 Sampled & Analysed by: ENVIROCON, Digboi

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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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.

Report No.: ENV/GSCL/SE/JAN/18-19/01

Date : 03/02/2019

GOLDSTONE CEMENTS LIMITED

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

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/JAN/18-19/01		
02	Date of Sampling	23.01.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Raw Mill		
05	Flue Gas Temperature (°C)	169		
06	Exit Velocity of Gas (m/sec)	13.7		
07	Type of Fuel Used	Kiln Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	25.7	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	456.9	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	222.8	mg/Nm ³	600

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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

Report No.: ENV/GSCL/SE/JAN/18-19/02

Date : 03/02/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

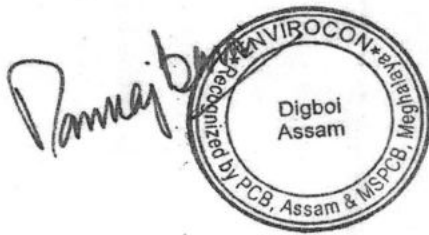
P. O.: - Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/JAN/18-19/02		
02	Date of Sampling	24.01.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Flue Gas Temperature (°C)	57		
06	Exit Velocity of Gas (m/sec)	10.5		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	17.8	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	395.4	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	162.8	mg/Nm ³	600

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/JAN/18-19/03

Date : 03/02/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)


P. O.:- Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/JAN/18-19/03		
02	Date of Sampling	24.01.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Flue Gas Temperature (°C)	227		
06	Exit Velocity of Gas (m/sec)	17.8		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	28.4	mg/Nm ³	30

*NA: Not Applicable

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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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.

Report No.: ENV/GSCL/SE/JAN/18-19/05

Date : 25/01/2019

GOLDSTONE CEMENTS LIMITED


Village- Musiang Lamare (Old)

P. O.-: Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/JAN/18-19/06		
02	Date of Sampling	24.01.2019		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Flue Gas Temperature (°C)	93		
06	Exit Velocity of Gas (m/sec)	7.2		
07	Type of Fuel Used	Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	39.9	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	504.7	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	209.6	mg/Nm ³	300

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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

Report No.: ENV/GSCL/SE/JAN/18-19/04

Date : 25/01/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

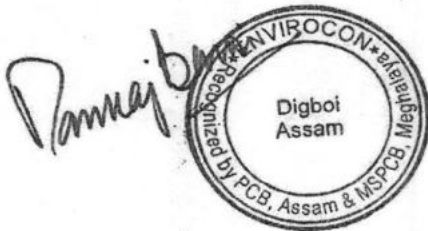
P. O.- Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/JAN/18-19/04		
02	Date of Sampling	23.01.2019		
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)	11.8		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	18.8	mg/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/NLM/JAN/18-19/01

Date : 03/02/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 23.01.2019

Sl. No.	Location(s)	Day time		Night Time	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	73	75	66	70
2	Near CPP Area	71	75	62	70
3	Near Limestone Storage Yard	67	75	53	70
4	Near Coal Storage Yard	63	75	50	70
5	Near Raw Mill	72	75	60	70
6	Near Cement Mill	69	75	59	70
7	Near Administrative Building	60	75	51	70
8	Power House	73	75	68	70

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/FE/JAN/18-19/01

Date : 03/02/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.: - Khliehriat

Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
23.01.2019	Fly-ash Storage Section	2678	5000
23.01.2019	Coal Storage Section	979	2000
24.01.2019	Limestone Storage Section	1877	5000
24.01.2019	Cement Packing Section	2642	5000

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/ETP/JAN/18-19/01

Date : 03/02/2019

GOLDSTONE CEMENTS LIMITED

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

EFFLUENT WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water
Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client
Collected On: 24.01.2019

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH	--	6.9	5.5 – 9.0
02	Temperature	°C	19.7	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	14	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	18	30
05	Chemical Oxygen Demand	mg/l	44	250
06	Oil & Grease	mg/l	1.2	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	11.9	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	34.4	100
01	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/GSCL/DW/JAN/18-19/01
Date : 03/02/2019

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.-: Khliehriat
Meghalaya- 793200

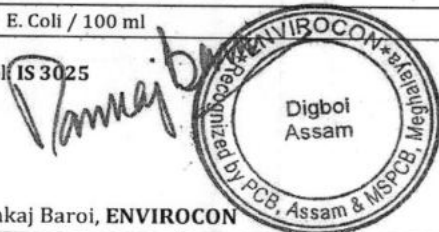
DRINKING WATER ANALYSIS RESULTS

Sample Type : Drinking Water
Collected By : Jointly by Envirocon & Client
Sample Source : Canteen
Collected On : 24.01.2019

Sl. No.	Parameters	Results	Desirable Limit (IS: 10500)
1.	Colour, Hazen Units, Max	<1	5
2.	Odour	Odourless	Agreeable
3.	Taste	Acceptable	Agreeable
4.	Turbidity, NTU, Max	0.17	1.0
5.	pH	7.4	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	144	500
7.	Aluminium (as Al), mg/l, Max	ND	0.03
8.	Boron (as B), mg/l, Max	ND	0.5
9.	Calcium (as Ca), mg/l, Max	20	75
10.	Chloride (as Cl), mg/l, Max	2.6	250
11.	Copper (as Cu), mg/l, Max	ND	0.05
12.	Fluorides (as F), mg/l, Max	ND	1.0
13.	Free Residual Chlorine, mg/l, Min	ND	0.2
14.	Iron (as Fe), mg/l, Max	0.049	0.3
15.	Magnesium (as Mg), mg/l, Max	3.2	30
16.	Manganese (as Mn), mg/l, Max	ND	0.1
17.	Zinc (as Zn), mg/l, Max	ND	5.0
18.	Nitrate (as NO ₃), mg/l, Max	ND	45
19.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20.	Sulfate (as SO ₄), mg/l, Max	19	200
21.	Total Alkalinity (as CaCO ₃), mg/l, Max	82	200
22.	Total Hardness, (as CaCO ₃), mg/l, Max	5.9	200
23.	Cadmium (as Cd), mg/l, Max	ND	0.003
24.	Cyanide (as CN), mg/l, Max	ND	0.05
25.	Lead (as Pb), mg/l, Max	ND	0.01
26.	Mercury (as Hg), mg/l, Max	ND	0.001
27.	Selenium (as Se), mg/l, Max	ND	0.01
28.	Total Arsenic (as As), mg/l, Max	ND	0.01
29.	Total Chromium, (as Cr), mg/l, Max	ND	0.05
30.	Anionic Detergents (as MBAS), mg/l	ND	0.2
31.	Total Coliform, MPN/100 ml	NIL	10 Max
32.	Faecal Coliforms/ 100 ml	NIL	Absent
33.	E. Coli / 100 ml	NIL	Absent

Analysis Protocol IS 3025

ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Ref: GSCL/EHS/ 2018-19/12

Dated: 24.03.2019

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



Sub: Submission of Monthly Environmental Monitoring Reports

Sir,

With reference to the subject as cited above, we are submitting Monthly Environmental Monitoring Reports for the month of **February-2019**, which was monitored by Authorized Third Party M/s. ENVIROCON.

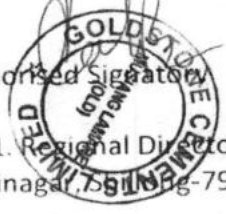
We request you to acknowledge the receipt.

Thanking You,

Yours faithfully
For Goldstone Cements Ltd

Central Pollution Control Board
भारत मितेशालय उत्तर पूर्व शिलांग - ७९३०१४
Regional Directorate - North East, Shillong - 793014
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO
DATED 24/03/19

Authorized Signatory


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

2. The Ministry of Environment & Forests & Climate Change, Law-u-sib, Lumbatngen, Near MTC Workshop, Shillong-793014, Meghalaya.

- Encl: Ambient air quality test report - February 2019
Stack Emission test report - February 2019
Drinking water analysis report - February 2019
Process Fugitive Emission test report - February 2019
Noise level measurement report - February 2019
Effluent Water Analysis report- February 2019



Goldstone Cements Limited
CIN No. : U26940ML2007PLC008298

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

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

Sales & Marketing Office
5A, 5th Floor, Shine Towers, 57 Sati Jaymati Road
Arya Chowk, Rehabari, Guwahati, Assam 781008
P +91-361-2607071/72

Report No.: ENV/GSCL/AAQ/FEB/18-19/01

Date : 28/02/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s) ↓	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)
			60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	Near CPP	12.02.2019	--	62.4	2.9	4.4
		13.02.2019	31.9	--	--	--
2.	Near Secondary Crusher	12.02.2019	--	64.9	7.8	BDL
		13.02.2019	26.2	--	--	--
3.	Near Fly Ash Shed	12.02.2019	--	63.6	6.9	BDL
		13.02.2019	33.4	--	--	--
4.	Near Temple	13.02.2019	--	52.8	6.2	BDL
		14.02.2019	20.8	--	--	--

BDL: Below Detection Level

Analysis Protocol: IS 5182

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/FEB/18-19/01

Date : 28/02/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.-: Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/FEB/18-19/01		
02	Date of Sampling	12.02.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Raw Mill		
05	Flue Gas Temperature (°C)	165		
06	Exit Velocity of Gas (m/sec)	12.9		
07	Type of Fuel Used	Kiln Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	18.7	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	386.9	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	185.2	mg/Nm ³	600



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/FEB/18-19/02

Date : 28/02/2019

GOLDSTONE CEMENTS LIMITED

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

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/FEB/18-19/02		
02	Date of Sampling	12.02.2019		
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)	11.2		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	24.9	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	323.6	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	136.6	mg/Nm ³	600

*NA: Not Applicable



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Report No.: ENV/GSCL/SE/FEB/18-19/05

Date : 28/02/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/FEB/18-19/05		
02	Date of Sampling	13.02.2019		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Flue Gas Temperature (°C)	90		
06	Exit Velocity of Gas (m/sec)	8.0		
07	Type of Fuel Used	Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	26.8	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	480.2	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	200.4	mg/Nm ³	300

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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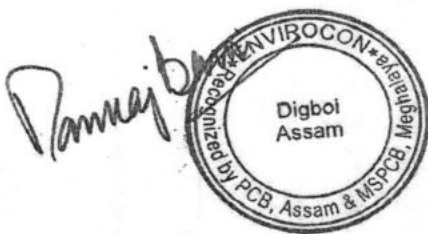
Report No.: ENV/GSCL/SE/FEB/18-19/04
 Date : 28/02/2019

GOLDSTONE CEMENTS LIMITED
 Village- Musiang Lamare (Old)
 P. O.:- Khliehriat
 Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/FEB/18-19/04		
02	Date of Sampling	13.02.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Flue Gas Temperature (°C)	59		
06	Exit Velocity of Gas (m/sec)	12.2		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	22.2	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/GSCL/NLM/FEB/18-19/01
Date : 28/02/2019

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.:- Khliehriat
Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 13.02.2019

Sl. No.	Location(s)	Day time		Night Time	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	74	75	67	70
2	Near CPP Area	72	75	64	70
3	Near Limestone Storage Yard	65	75	58	70
4	Near Coal Storage Yard	60	75	54	70
5	Near Raw Mill	71	75	63	70
6	Near Cement Mill	67	75	60	70
7	Near Administrative Building	59	75	53	70
8	Power House	74	75	67	70

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/FE/FEB/18-19/01

Date : 28/02/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
12.02.2019	Fly-ash Storage Section	2749	5000
12.02.2019	Coal Storage Section	988	2000
13.02.2019	Limestone Storage Section	1944	5000
13.02.2019	Cement Packing Section	2459	5000

Sampled & Analysed by: ENVIROCON, Digboi

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/ETP/FEB/18-19/01
 Date : 28/02/2019

GOLDSTONE CEMENTS LIMITED

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

EFFLUENT WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water
 Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client
 Collected On: 13.02.2019

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH	--	6.7	5.5 – 9.0
02	Temperature	°C	18.9	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	16	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	17	30
05	Chemical Oxygen Demand	mg/l	42	250
06	Oil & Grease	mg/l	1.4	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	10.8	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	32.6	100
01	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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

Report No. : ENV/GSCL/DW/FEB/18-19/01
Date : 28/02/2019

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.-: Khliehriat
Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Type : Drinking Water
Collected By : Jointly by Envirocon & Client

Sample Source : Canteen
Collected On : 12.02.2019

Sl. No.	Parameters	Results	Desirable Limit (IS: 10500)
1.	Colour, Hazen Units, Max	<1	5
2.	Odour	Odourless	Agreeable
3.	Taste	Acceptable	Agreeable
4.	Turbidity, NTU, Max	0.19	1.0
5.	pH	6.9	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	179	500
7.	Aluminium (as Al), mg/l, Max	ND	0.03
8.	Boron (as B), mg/l, Max	ND	0.5
9.	Calcium (as Ca), mg/l, Max	22	75
10.	Chloride (as Cl), mg/l, Max	2.4	250
11.	Copper (as Cu), mg/l, Max	ND	0.05
12.	Fluorides (as F), mg/l, Max	ND	1.0
13.	Free Residual Chlorine, mg/l, Min	ND	0.2
14.	Iron (as Fe), mg/l, Max	0.038	0.3
15.	Magnesium (as Mg), mg/l, Max	2.8	30
16.	Manganese (as Mn), mg/l, Max	ND	0.1
17.	Zinc (as Zn), mg/l, Max	ND	5.0
18.	Nitrate (as NO ₃), mg/l, Max	ND	45
19.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20.	Sulfate (as SO ₄), mg/l, Max	22	200
21.	Total Alkalinity (as CaCO ₃), mg/l, Max	88	200
22.	Total Hardness, (as CaCO ₃), mg/l, Max	5.6	200
23.	Cadmium (as Cd), mg/l, Max	ND	0.003
24.	Cyanide (as CN), mg/l, Max	ND	0.05
25.	Lead (as Pb), mg/l, Max	ND	0.01
26.	Mercury (as Hg), mg/l, Max	ND	0.001
27.	Selenium (as Se), mg/l, Max	ND	0.01
28.	Total Arsenic (as As), mg/l, Max	ND	0.01
29.	Total Chromium, (as Cr), mg/l, Max	ND	0.05
30.	Anionic Detergents (as MBAS), mg/l	ND	0.2
31.	Total Coliform, MPN/100 ml	NIL	10 Max
32.	Faecal Coliforms/ 100 ml	NIL	Absent
33.	E. Coli / 100 ml	NIL	Absent

Analysis Protocol IS 3025

ND: Not Detected

Checked By: Mr. Pankaj Baroi, ENVIROCON

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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.

Dated: 08.04.2019

No: GSCL/EHS/ 2019-20/04

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

Sub: Submission of Monthly Environmental Monitoring Reports - March 2019

Sir,

With reference to the subject as cited above, we are herewith submitting Monthly Environmental Monitoring Reports for the month of March - 2019, which was monitored by Authorized Third Party M/s. ENVIROCON.

Third party monitoring to Hg in CPP stack and ambient air quality for all 12 parameters for PM 2.5, PM 10, NO₂, SO₂, NH₃, CO, O₃, B(a)P, C₆H₆, Ni, As & Pb have been conducted. Test reports are enclosed.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully
For Goldstone Cements Ltd

Authorised Signatory



- CC:
1. Regional Director, Central Pollution Control Board, Regional Directorate-North East, Lower Motinagar, Shillong-793014.
 2. The Ministry of Environment & Forests & Climate Change, Law-u-sib, Lumbatngen, Near MTC Workshop, Shillong-793014, Meghalaya.

- Encl:
- Ambient air quality test report - March 2019
 - Stack Emission test report - March 2019
 - Drinking water analysis report - March 2019
 - Process Fugitive Emission test report - March 2019
 - Noise level measurement report - March 2019
 - Effluent Water Analysis report- March 2019

Central Pollution Control Board
 क्षेत्रीय निदेशालय उत्तर पूर्व शिलांग - ७९३०१४
 Regional Directorate - North East, Shillong - 793014
 पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
 Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO
 DATED 12/04/19

Goldstone Cements Limited
CIN No. : U26940ML2007PLC008298





Recognised By
PCB, Assam & MSPCB, Meghalaya

Digboi Stores Building, New Market
Digboi, Assam - 786 171
Ph: 03751-264414, 9435008657, 8876028672
E-mail: envirocon@rediffmail.com
Website: www.envirocon.net.in



Report No. : ENV/GSCL/AAQ/MAR/18-19/01
Date : 08/04/2019

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)	NO ₂ (µg/m³)	SO ₂ (µg/m³)	NH ₃ (µg/m³)	CO (mg/m³)	O ₃ (mg/m³)	B(a)P (ng/m³)	C ₆ H ₆ (µg/m³)	Ni (ng/m³)	As (ng/m³)	Pb (µg/m³)
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	13.03.2019	56.8	98.9	43.2	26.1	52.8	0.26	13.4	<0.1	<0.01	<0.01	<0.01	<0.01
Near Secondary Crusher	13.03.2019	52.8	95.4	38.6	21.4	42.6	0.11	8.6	<0.1	<0.01	<0.01	<0.01	<0.01
Near Fly Ash Shed	14.03.2019	55.9	97.8	28.9	19.2	33.7	0.086	4.2	<0.1	<0.01	<0.01	<0.01	<0.01
Near Temple	14.03.2019	50.2	88.6	24.8	15.8	28.3	0.041	3.1	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON


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Report No.: ENV/GSCL/SE/MAR/18-19/01
 Date : 29/03/2019

GOLDSTONE CEMENTS LIMITED
 Village- Musiang Lamare (Old)
 P. O.-: Khliehriat
 Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/MAR/18-19/01		
02	Date of Sampling	13.03.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Raw Mill		
05	Flue Gas Temperature (°C)	172		
06	Exit Velocity of Gas (m/sec)	12.4		
07	Type of Fuel Used	Kiln Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	19.2	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	393.5	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	201.4	mg/Nm ³	600

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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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.



ENVIROCON

Recognised By
PCB, Assam & MSPCB, Meghalaya

Digboi Stores Building, New Market
Digboi, Assam - 786 171
Ph: 03751-264414, 9438008657, 8878028672
E-mail: envirocon@rediffmail.com
Website: www.envirocon.net.in



Report No.: ENV/GSCL/SE/MAR/18-19/02
Date : 29/03/2019

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.- Khliehriat
Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/MAR/18-19/02		
02	Date of Sampling	13.03.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Flue Gas Temperature (°C)	56		
06	Exit Velocity of Gas (m/sec)	12.4		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	23.7	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	346.8	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	144.8	mg/Nm ³	600

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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E-mail: envirocon@rediffmail.com
Website: www.envirocon.net.in



Report No.: ENV/GSCL/SE/MAR/18-19/03

Date : 29/03/2019

GOLDSTONE CEMENTS LIMITED

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

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/MAR/18-19/03		
02	Date of Sampling	13.03.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Flue Gas Temperature (°C)	208		
06	Exit Velocity of Gas (m/sec)	13.4		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	21.5	mg/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/MAR/18-19/04
Date : 29/03/2019

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.: - Khliehriat
Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/MAR/18-19/04		
02	Date of Sampling	14.03.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Flue Gas Temperature (°C)	56		
06	Exit Velocity of Gas (m/sec)	13.6		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	23.7	mg/Nm ³	30

*NA: Not Applicable

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/MAR/18-19/05

Date : 04/04/2019

GOLDSTONE CEMENTS LIMITED


Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/MAR/18-19/05		
02	Date of Sampling	14.03.2019		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Flue Gas Temperature (°C)	86		
06	Exit Velocity of Gas (m/sec)	9.2		
07	Type of Fuel Used	Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	37.2	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	517.2	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	224.6	mg/Nm ³	300
iv	Mercury (as Hg)	0.022	mg/Nm ³	0.05

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/GSCL/DW/MAR/18-19/01
Date : 29/03/2019

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.- Khliehriat
Meghalaya- 793200

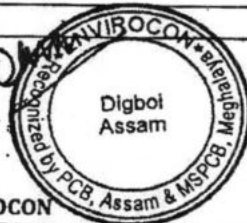
DRINKING WATER ANALYSIS RESULTS

Sample Type : Drinking Water
Collected By : Jointly by Envirocon & Client
Sample Source : Canteen
Collected On : 14.03.2019

Sl. No.	Parameters	Results	Desirable Limit (IS: 10500)
1.	Colour, Hazen Units, Max	<1	5
2.	Odour	Odourless	Agreeable
3.	Taste	Acceptable	Agreeable
4.	Turbidity, NTU, Max	0.16	1.0
5.	pH	7.2	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	168	500
7.	Aluminium (as Al), mg/l, Max	ND	0.03
8.	Boron (as B), mg/l, Max	ND	0.5
9.	Calcium (as Ca), mg/l, Max	26	75
10.	Chloride (as Cl), mg/l, Max	3.2	250
11.	Copper (as Cu), mg/l, Max	ND	0.05
12.	Fluorides (as F), mg/l, Max	ND	1.0
13.	Free Residual Chlorine, mg/l, Min	ND	0.2
14.	Iron (as Fe), mg/l, Max	0.024	0.3
15.	Magnesium (as Mg), mg/l, Max	3.1	30
16.	Manganese (as Mn), mg/l, Max	ND	0.1
17.	Zinc (as Zn), mg/l, Max	ND	5.0
18.	Nitrate (as NO ₃), mg/l, Max	ND	45
19.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20.	Sulfate (as SO ₄), mg/l, Max	19	200
21.	Total Alkalinity (as CaCO ₃), mg/l, Max	76	200
22.	Total Hardness, (as CaCO ₃), mg/l, Max	7.1	200
23.	Cadmium (as Cd), mg/l, Max	ND	0.003
24.	Cyanide (as CN), mg/l, Max	ND	0.05
25.	Lead (as Pb), mg/l, Max	ND	0.01
26.	Mercury (as Hg), mg/l, Max	ND	0.001
27.	Selenium (as Se), mg/l, Max	ND	0.01
28.	Total Arsenic (as As), mg/l, Max	ND	0.01
29.	Total Chromium, (as Cr), mg/l, Max	ND	0.05
30.	Anionic Detergents (as MBAS), mg/l	ND	0.2
31.	Total Coliform, MPN/100 ml	NIL	10 Max
32.	Faecal Coliforms/ 100 ml	NIL	Absent
33.	E. Coli / 100 ml	NIL	Absent

Analysis Protocol IS 3025

ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/FE/MAR/18-19/01

Date : 29/03/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)


P. O.:- Khliehriat

Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
13.03.2019	Fly-ash Storage Section	2886	5000
13.03.2019	Coal Storage Section	935	2000
14.03.2019	Limestone Storage Section	2104	5000
14.03.2019	Cement Packing Section	2819	5000

Sampled & Analysed by: ENVIROCON, Digboi

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/NLM/MAR/18-19/01
Date : 29/03/2019

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.: - Khliehriat
Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 13.03.2019

Sl. No.	Location(s)	Day time		Night Time	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	73	75	65	70
2	Near CPP Area	70	75	63	70
3	Near Limestone Storage Yard	61	75	56	70
4	Near Coal Storage Yard	58	75	51	70
5	Near Raw Mill	72	75	65	70
6	Near Cement Mill	69	75	62	70
7	Near Administrative Building	56	75	49	70
8	Power House	72	75	66	70

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/ETP/MAR/18-19/01
 Date : 29/03/2019

GOLDSTONE CEMENTS LIMITED
 Village- Musiang Lamare (Old)
 P. O.: - Khliehriat
 Meghalaya- 793200

EFFLUENT WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water
 Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client
 Collected On: 14.03.2019

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH	--	6.8	5.5 - 9.0
02	Temperature	°C	25.9	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	12.3	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	19	30
05	Chemical Oxygen Demand	mg/l	47	250
06	Oil & Grease	mg/l	0.8	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	13.7	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	34.8	100
01	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

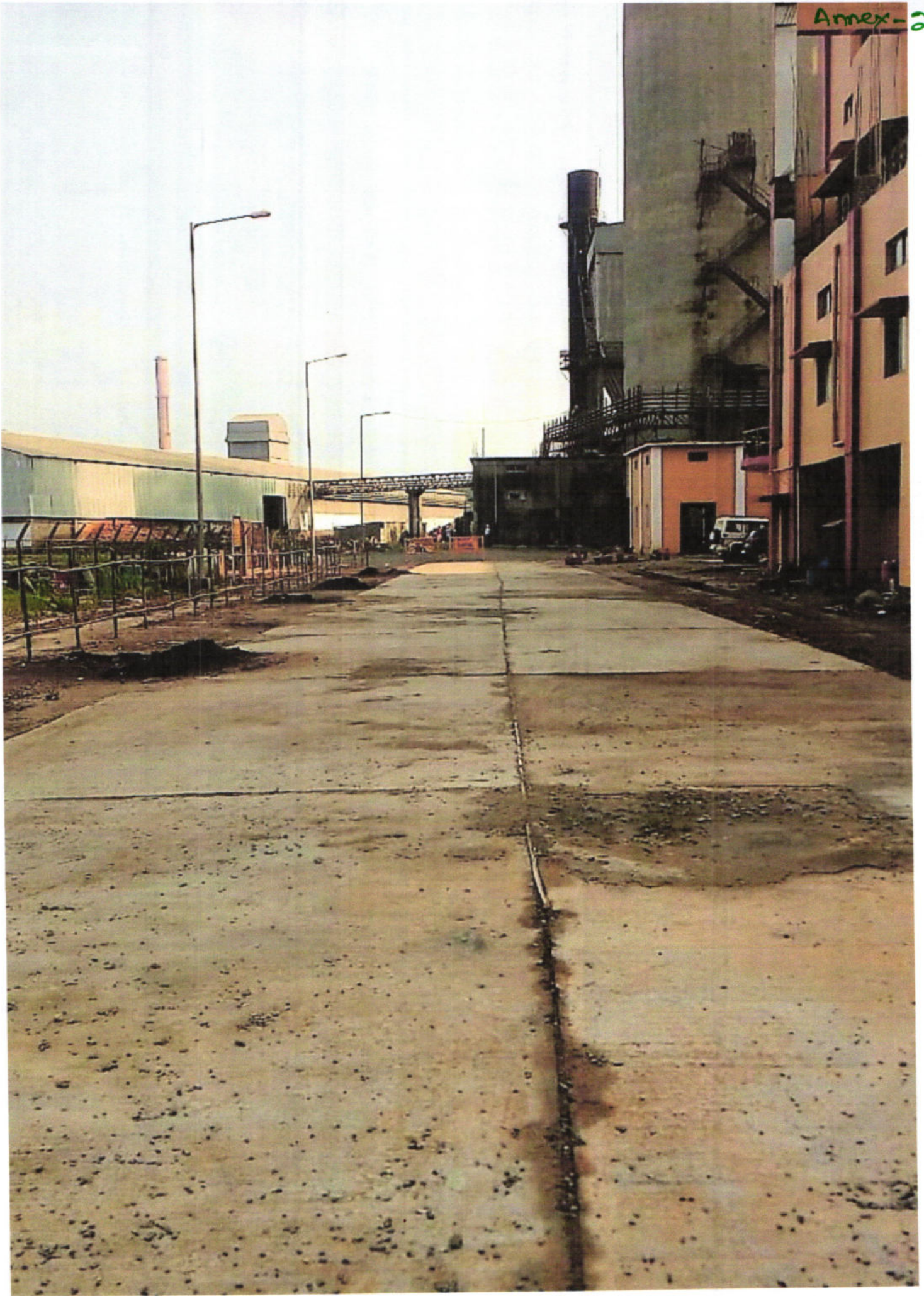
Analysis Protocol: IS 3025

Pankaj Baroi


Checked By: Mr. Pankaj Baroi, ENVIROCON

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Annex-2a

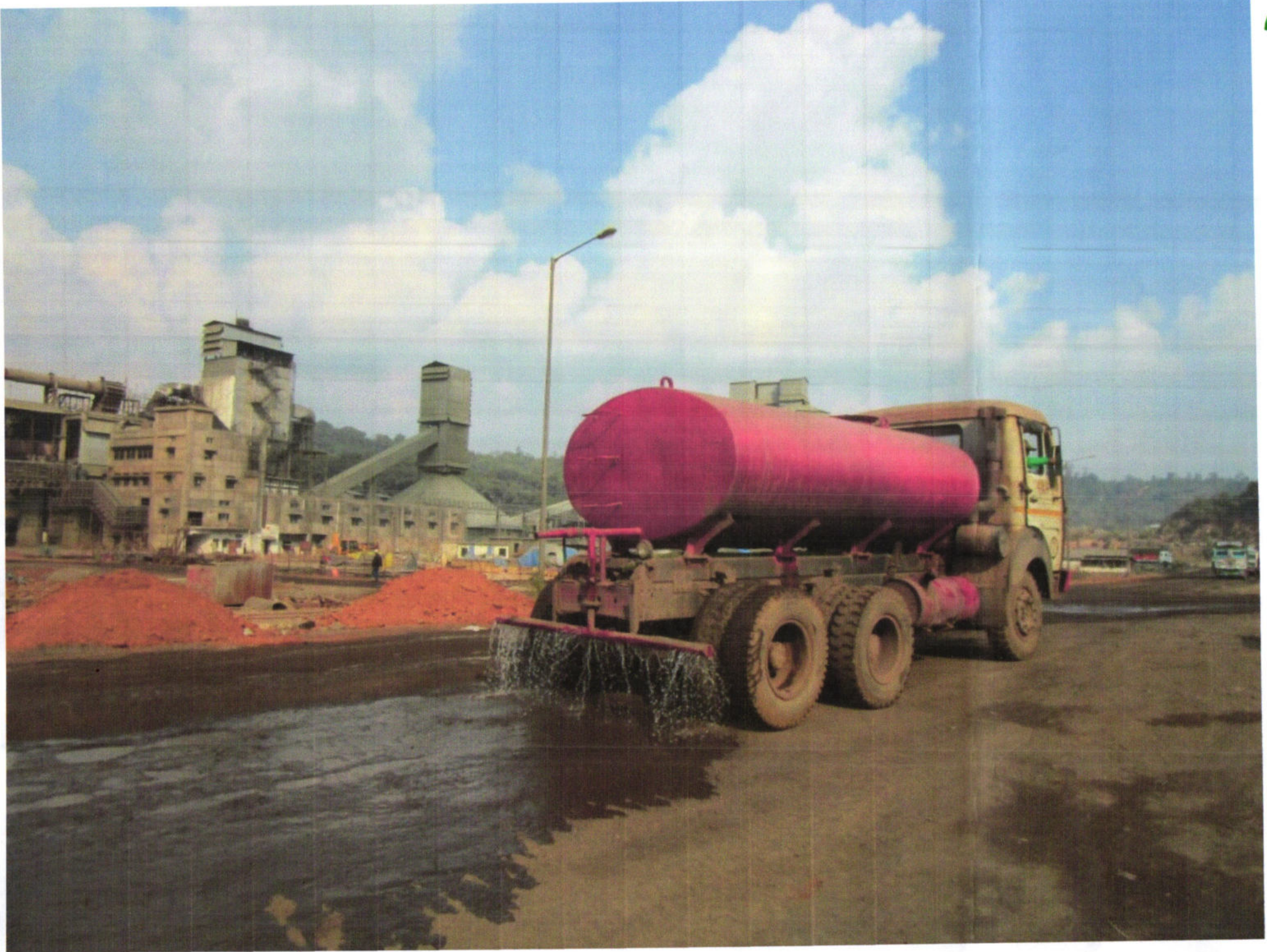




Annex
2C



Annex-
29



BHAROSA POLLUTION TESTING STATION

(Under the Assam Motor Vehicle Rules 1989)

GOVERNMENT OF ASSAM

Approved by Transport Department.

License No-02/2007 Panchgram New, Market.

Mobile No 9678753407,9577828112

Vehicle Registration No :-

AS-01-CC/8104

Date of Issue: 26/04/2019

Valid Up to:- 25/10/2019

CO (%)	23.0
HC (PPM)	026
SD (HSU)	

AS-01CC-8104

PUC Certificate issue
BHAROSA POLLUTION TESTING STATIONK. Mazumder
SignatureBharosa Pollution Testing Station
Panchgram New Market**TEST REPORT**

Vehicle Registration No: - AS-01-CC/8104

Make- TATA

Model:- TATA LPT

H.P:- 5883 cc

Validity: 06 Months

Engine No:- ...05006

Valid up to:- 25/10/2019

Owner:- F. A. LASKAR

Time:- 10.10 A.M

Flushing Cycle mean : RPM Mean:-00698 RPM Max:-01704

Sl No:-159

Fuel:-Diesel.

Test Fees:-130/-

Test Time:-10.10 A.M

Reg. Year: - 2010

Chassis No-17760

I.D Number:-BPTS23M570

Vehicle Color:- NA

SL NO	RPM min	RPM max	Km-1	HSU%	OTP C
1	00706	01701	1.27	31.7	75.81
2	00717	01753	1.30	32.5	76.65
3	00681	01688	1.31	33.3	75.80
4	00694	01666	1.22	39.2	74.21
Mean	00697	01703	1.25	33.5	76.63

Certified that this Vehicle's CO and HC Emission Level confirm to the standards prescribed under Rule 115(2) of CMV Rules, 1989

Valid Up To:- 25/10/2019

Grade A

Bharosa Pollution Testin
Panchgram New Ma

Name of Authorized Signatory with Signature

26/04/19

Seal Of Testing

Date:-26/04/2019

Pollution Testing

POLLUTION UNDER CONTROL CERTIFICATE
(UNDER CMV RULES 1989)

Sl. No. 15122

Registration No. AS-01-DC-5242

Issue on: 17/12/2018 Valid upto: 16/06/2019

CO (%)		
HC (ppm)		
SD (HSU)		

PUC Certificate Issue 27.7 Licence No. and Seal

06/2016



AUTHORISED BY TRANSPORT DEPT. GOVT OF ASSAM
Rukminigaon, Khanapara, Guwahati-22, Assam. ph-9854890111

Vehicle Registration No.	AS-01-DC-5242	Test Fee:	130.00
Year of Registration	18/08/2006	Fuel	Diesel
Speedometer Reading	245115		-
Engine Number	129308	Vehicle Make	Tata
Chassis Number	124079	Vehicle Model	TRUCK
Vehicle Color	OTHERS	Driver	SELF
I.D Number	ASDP000578	Owner	MR B. SINGH
Time	12:11 AM		
Date	17/12/2018		

Flushing Cycle Mean : RPM Mean : 00759 RPM Max : 01305

Sl. No.	RPM min	RPM max	K m-1	HSU%	OTPC
1	00762	01300	2.38	27.5	69.80
2	00773	01336	2.38	26.9	71.20
3	00750	01266	2.43	28.1	67.99
4	00751	01316	2.35	28.2	71.34
Mean	00759	01305	2.38	27.7	70.08

Certified that this vehicle's smoke density confirm to the standards prescribed under Rule 115(2) of CMV Rules 1989
Validity : 6 months
Valid UpTo : 16/06/2019




Seal Of Testing Name of Authorised Signatory With Signature



**COMPUTERISED EMISSION TEST CERTIFICATE
AUTHORISED BY GOVT. OF ASSAM**

M/S BAJRANGVALEE A. E. T. STATION
BASISHTA CHARIALI, NH-37, NEAR RAJ SERVICE CENTRE, GUWAHATI-29
Phone : 0361-2307146 (OFFICE)

Vehicle Registration No. : AS01KC9012	SI No. : 1126187
Year of Registration : 2019	Vehicle Make : 
Engine No. : 2624	Owner Name : G. A. S.
Chassis No. : 8409	Testing Fees : 130.00
Type of Vehicle : TRUCK	Fuel : DIESEL
Type of Engine : 6	Oil Temp : 68
Test Result : FREE ACCELERATION	Valid Upto : 01-08-2019

No. Of K	Kval	MinRpm	MaxRpm	Interval	OilTemp	Test Time
1	2.20	772	1580	5.6	67.2	02:34:37PM
2	2.23	775	1583	5.1	67.5	02:34:42PM
3	2.21	779	1590	5.6	67.6	02:34:47PM
4	2.20	776	1589	5.8	67.6	02:34:52PM
5	2.23	778	1593	5.8	68.0	02:34:57PM
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
10	-	-	-	-	-	-
K_Avg	2.214					
HSU	61.17					

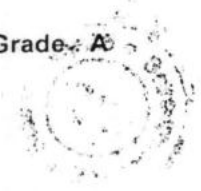
Certified that this vehicle's K-Mean and HSU% value conforms to the standards prescribed under Rule 115(2) of CMV Rules 1989, the certificate is valid for 6 months.

Validity : 6 Months

Grade: A

Name of Authorised Signatory With Signature

Seal of Testing Center





COMPUTERISED EMISSION TEST CERTIFICATE
AUTHORISED BY GOVT. OF ASSAM
M/S BAJRANGVALEE A. E. T. STATION
BASISHTA CHARIALI, NH-37, NEAR RAJ SERVICE CENTRE, GUWAHATI-29
Phone : 0361-2307146 (OFFICE)

Vehicle Registration No. : AS01DC9288	SI No. : 1124600
Year of Registration : 2011	Vehicle Make : BA
Engine No. : 7310	Owner Name : N. H. SARKAR
Chassis No. : 8757	Testing Fees : 130.00
Type of Vehicle : TRUCK	Fuel : DIESEL
Type of Engine : 6	Oil Temp : 68
Test Result : FREE ACCELERATION	Valid Upto : 30-06-2019


No. Of K	Kval	MinRpm	MaxRpm	Interval	OilTemp	Test Time
1	2.20	772	1580	5.6	67.2	11:13:27AM
2	2.23	775	1583	5.1	67.5	11:13:32AM
3	2.21	779	1590	5.6	67.6	11:13:37AM
4	2.20	776	1589	5.8	67.6	11:13:42AM
5	2.23	778	1593	5.8	68.0	11:13:47AM
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
10	-	-	-	-	-	-
K_Avg	2.214					
HSU	61.17					

Certified that this vehicle's K-Mean and HSU% value conforms to the standards prescribed under Rule 115(2) of CMV Rules 1989, the certificate is valid for 6 months.

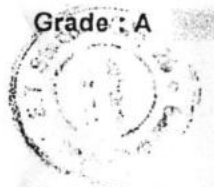
Validity : 6 Months

Grade : A

Name of Authorised Signatory With Signature


Machine Operator
1/s Bajrangvalee A.E.T. Station
N. H. 37, Guwahati-29

Seal of Testing Center



POLLUTION UNDER CONTROL CERTIFICATE
(UNDER CMV RULES, 1989)

Sl. No.

2992

AS01EC8465

27/Mar/2019

26/Sep/2019

Time on: 02:01:09 PM
Date on: 27/Mar/2019



PUC Certificate Issue
Pollution Level
Signature

TEST REPORT

AUTHORISED BY TRANSPORT DEPT. GOVT OF ASSAM
MOBILE AUTO EMISSION TESTING STATION,
GUWAHATI, 8638443173

Vehicle Registration No.:	AS01EC8465	Test Fee (Rs) :	130.00
Reg. Year:	2013	Fuel :	Diesel
Speedometer Reading(kms):	0		
Engine Number:	12679	Vehicle Make:	TATA
Chassis Number:	01776	Vehicle Model:	3118
Vehicle Color:	OTHERS	Driver:	X
I.D. Number:	D02001225	Owner	S.V.L.L.
Time:	2:01:09 PM		
Date:	True		

Flushing Cycle Mean: RPM min : 710 RPM max : 3550

S.No.	RPM min	RPM max	K /m	HSU %	OTPC
1	740	3500	0.53	20.4	63.00
2	720	3500	0.51	20.0	64.00
3	740	3640	0.51	20.0	64.00
4	730	3750	0.51	20.0	66.00
Mean	733	3598	0.52	20.1	64.25

Certified that this vehicle's Smoke Density confirm to the standards prescribed under Rule 115(2) of CMV Rules, 1989

Validity : 6 months
Valid UpTo 26/Sep/2019 Grade A

Seal Of Testing Name of Authorised Signatory With Signature

POLLUTION UNDER CONTROL CERTIFICATE

(UNDER CMV RULES 1989)

Registration No. **AS09C3249**

Issue on **06-Apr-2019** Valid upto **05-Oct-2019**

Pollution level	CO (%)	
	HC (ppm)	
	SD (HSU)	39.1

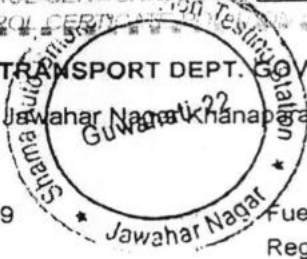
PUC Certificate Issue Licence No. and Seal

Shama Auto Smoke Emission Testing Station
Jawahar Nagar, Khanapara, Guwahati-22

08/07/2014

Signature

AUTHORISED BY **TRANSPORT DEPT. GOVT OF ASSAM**
A.S.E. Testing Station **Jawahar Nagar, Khanapara Guwahati-22**
Ghy-22



Serial No.: D000004959 Fuel : Diesel
 Make: TATA Reg. Year: 2011
 Model: LPT 3118 TC Test Time: 11:23:49
 Category: Truck Test Fee (Rs) :130.00
 Validity : 6 months
 Spedometer Reading(kms) : ---
 Engine Number:- 3174
 Chasis Number:- 8050
 vehicle Color:- OTHERS
 Driver: ---
 Owner :S.K CHOUDHARY Date on : 06 Apr 2019

	FLUSH	CYCLE	MEAN		
	MIN RPM	MAX RPM	OIL TEMP.		
	770	3960	91		
S.No	MIN RPM	MAX RPM	K /m	HSU %	Temp
1	760	3960	1.58	49.4	91
2	760	3950	1.08	37.2	91
3	760	3920	1.20	40.4	90
4	760	3950	1.12	38.4	90
5	760	3920	1.20	40.4	90
Mean			1.15	39.1	

Certified that this vehicle's Smoke Density confirm to the standards prescribed under Rule 115(2) of CMV Rules, 1989

Valid UpTo **05-Oct-2019** Grade A **52000** Time: 11:23:49



Name of Authorised Signatory With Signature

Shama Auto Smoke Emission Testing Station
 Signatory
 Date: 6/4/19

PLEASE REMEMBER. VALIDITY ONLY SIX MONTH
 SAVE FUEL. SAVE ENERGY



KEEP YOUR CITY CLEAN & GREEN

POLLUTION UNDER CONTROL CERTIFICATE

Date of Issue: 31-03-2019

Vehicle Registration No: AS01DC4973

Valid Upto: 29-09-2019



HC: 0.18
CO: 1.68

Station: M/S BAJRANGVALEE A. E. T. STATION

Intidence No. & Seal: 04-08-2004

**COMPUTERISED EMISSION TEST CERTIFICATE
AUTHORISED BY GOVT. OF ASSAM**

M/S BAJRANGVALEE A. E. T. STATION
BASISHTA CHARIALI, NH-37, NEAR RAJ SERVICE CENTRE, GUWAHATI 79
Phone : 0361-2307146 (OFFICE)

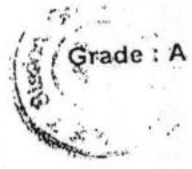
Vehicle Registration No. : AS01DC4973
Year of Registration : 2011
Engine No. : 8405
Classis No. : 3767
Type of Vehicle : TRUCK
Type of Engine : 6
Test Result : FREE ACCELERATION

SI No. : 1127786
Vehicle Make : TATA
Owner Name : C S ABMA
Testing Fees : 130.00
Fuel : DIESEL
Oil Temp : 54
Valid Upto : 29-09-2019

No. Of K	Kval	MinRpm	MaxRpm	Interval	OilTemp	Test Time
1	2.02	745	2272	5.7	54.0	09:56:52AM
2	2.04	795	2129	5.4	54.0	09:56:57AM
3	2.02	796	2269	5.0	54.0	09:57:02AM
4	2.03	715	2329	5.2	55.0	09:57:07AM
5	2.028	715	2349	4.5	55.0	09:57:12AM
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
10	-	-	-	-	-	-
K Avg	2.0276					
HSU	57.68					

Certified that this vehicle's K-Mean and HSU% value conforms to the standards prescribed under Rule 115(2) of CMV Rules 1989, the certificate is valid for 6 months.

Validity : 6 Months



Name of Authorised Signatory With Signature

Seal of Testing Center

Sl. No.

8108

Time on: 02:09:04 PM
Date on: 27/Mar/2019

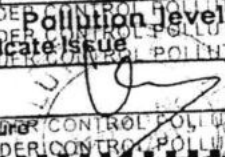
POLLUTION UNDER CONTROL CERTIFICATE
(UNDER CMV RULES 1989)


AS01EC8463

27/Mar/2019 26/Sep/2019

Pollution Level: **A**

PUC Certificate Issue: **AS01EC8463**

Signature: 

License No. and Seal: 

TEST REPORT

AUTHORISED BY **TRANSPORT DEPT. GOVT OF ASSAM**
MOBILE AUTO EMISSION TESTING STATION,
GUWAHATI, 8638443173

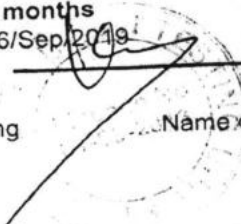
Vehicle Registration No.:	AS01EC8463	Test Fee (Rs) :	130.00
Reg. Year:	2013	Fuel :	Diesel
Speedometer Reading(kms):	0		
Engine Number:	11272	Vehicle Make:	TATA
Chassis Number:	01652	Vehicle Model:	3118
Vehicle Color:	OTHERS	Driver:	X
I.D. Number:	D02001226	Owner	S.V.L.L.
Time:	2:09:04 PM		
Date:	True		

Flushing Cycle Mean: RPM min : 710 RPM max : 3550

S.No.	RPM min	RPM max	K/m	HSU %	OTPC
1	740	3500	0.53	20.4	63.00
2	720	3500	0.51	20.0	64.00
3	740	3640	0.51	20.0	64.00
4	730	3750	0.51	20.0	66.00
Mean	733	3598	0.52	20.1	64.25

Certified that this vehicle's Smoke Density confirm to the standards prescribed under Rule 115(2) of CMV Rules, 1989

Validity : **6 months**
Valid Up To **26/Sep/2019** Grade **A**

Seal Of Testing  Name of Authorised Signatory With Signature _____

POLLUTION UNDER CONTROL CERTIFICATE
(Under the TRIPURA MOTOR VEHICLES RULES 1991)

Vehicle Registration No : TR01U 1819

Date of Issue : 19 Nov 2018 Valid Upto 18 May 2019



Test Results:

HSU
37.15%



Licence No and Seal : NO.F.1(1)/DTO/DLI/ABS/2016/1158-61

VEHICLE PASSED

PLC Certificate Issued By:



RITTIKA AUTOMOBILES EXHAUST TESTING CENTER
POLLUTION UNDER CONTROL CERTIFICATE
(Under the TRIPURA MOTOR VEHICLES RULES 1991)

RITTIKA AUTOMOBILES EXHAUST T. CENTERE
MANU GHAT, DHALAI, TRIPURA, PH-9862870689

Licence No : NO.F.1(1)/DTO/DLI/ABS/2016/1158-61 State Code : 001
 PUC No : TR00120181404 Type Of Vehicle : Othersheeler
 Vehicle No : TR01U 1819 Type Of Engine : 4 Stroke
 Year Of Reg : 2012 Make : TATA
 Odomtr Reading : 00 Model : LPT 3118 TC
 Fuel : Diesel Engine No : -----5198
 Date : 19 Nov 2018 Chassis No : -----0264
 Time : 09:22:25 AM Customer Name : MR SUJIT DEBNATH
 Address : SOUTH BAGADI
 NARSINGARH
 AIRPORT

Flush	Mean	Idle Rpm	Max Rpm	k Val	Hsu	Oil Temp
		0987	3354			
Trial		Idle Rpm	Max Rpm	k Val	Hsu	Oil Temp
1		1015	3488	1.89	55.63	92
2		1034	3370	2.16	60.50	90
3		1018	3503	1.10	37.69	92
4		1016	3393	1.03	35.78	93
5		992	3511	1.11	37.95	93
6		1004	3464	1.08	37.15	95
RESULT= PASSED				1.08	37.15	

Testing Fees : 80 Rs

Grade :

Valid Upto : 18 May 2019

RITTIKA AUTOMOBILES EXHAUST TESTING CENTER
Seal of Testing Station: DHALAI
Standards Prescribed under Rule 115 of Central Motor Vehicle Rules 1989.

[Signature]
Authorised Signatory

POLLUTION UNDER CONTROL CERTIFICATE
(UNDER CMV RULES, 1989)

Registration No: AS01EC8466
 Date: 27/Mar/2019
 Validity: 28/Sep/2019

Signature: _____
 Name: _____

Sl. No.
2991

Time on: 01:56:13 PM
 Date on: 27/Mar/2019



TEST REPORT

AUTHORISED BY: TRANSPORT DEPT. GOVT OF ASSAM
 MOBILE AUTO EMISSION TESTING STATION,
 GUWAHATI, 8638443173

Vehicle Registration No.: AS01EC8466
 Reg. Year: 2013
 Speedometer Reading(kms): 0
 Engine Number: 07615
 Chassis Number: 00321
 Vehicle Color: OTHERS
 I.D. Number: D02001224
 Time: 1:56:13 PM
 Date: True

Test Fee (Rs): 130.00
 Fuel: Diesel

Vehicle Make: TATA
 Vehicle Model: 3118
 Driver: X
 Owner: S.V.L.L.

Flushing Cycle Mean: RPM min : 710 RPM max : 3550

S.No.	RPM min	RPM max	K/m	HSU %	OTPC
1	740	3500	0.53	20.4	63.00
2	720	3500	0.51	20.0	64.00
3	740	3540	0.51	20.0	64.00
4	730	3750	0.51	20.0	66.00
Mean	733	3598	0.52	20.1	64.25

Certified that this vehicle's Smoke Density confirm to the standards prescribed under Rule 115(2) of CMV Rules, 1989

Validity: 6 months
 Valid Up To: 26/Sep/2019
 Grade A

Seal Of Testing _____
 Name of Authorised Signatory With Signature

**STREAM
WATER RESERVOIR
CAPACITY-1.0 Lac Liters**



Annex
4a



Annex
5



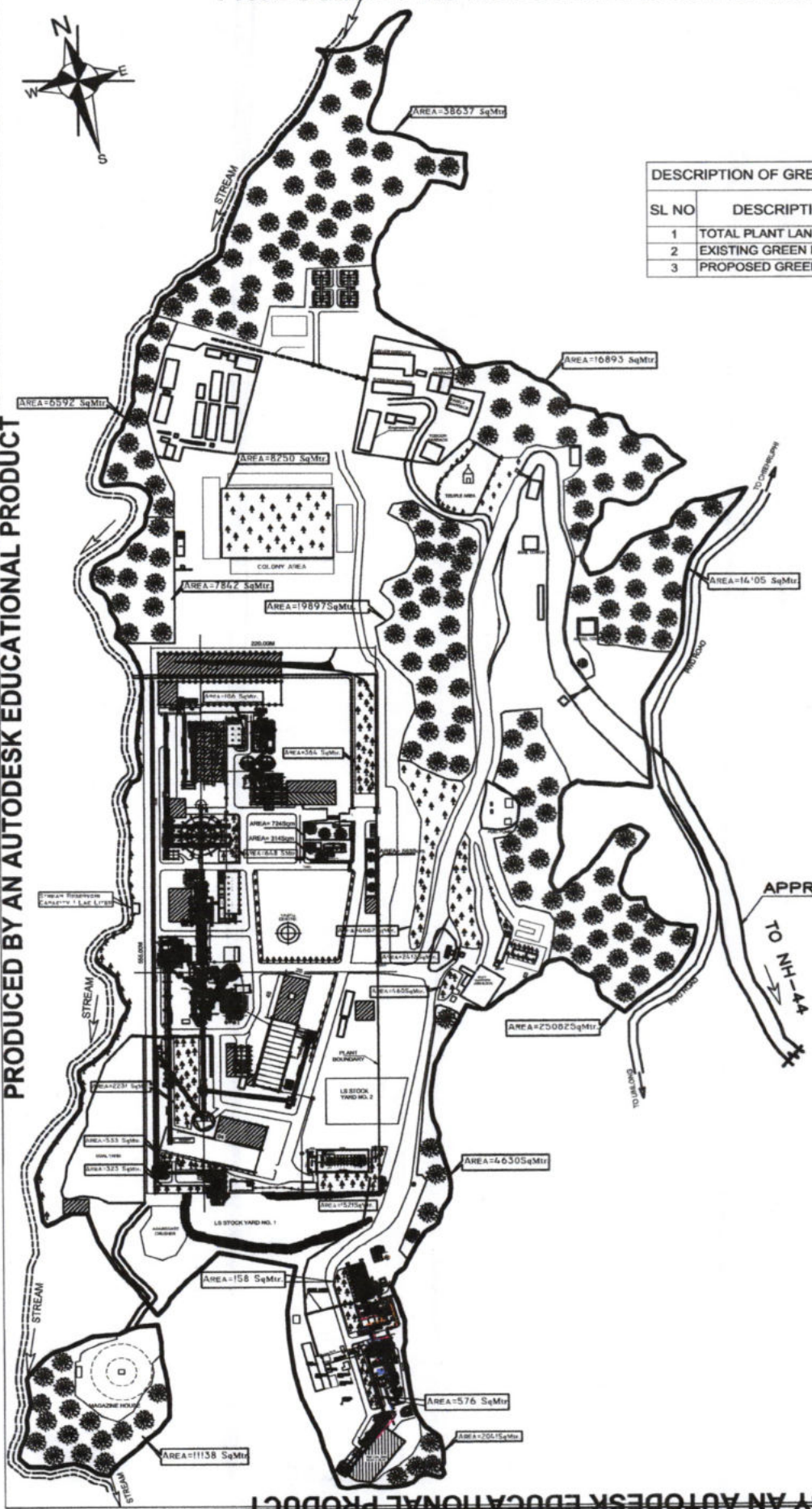
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



DESCRIPTION OF GREEN BELT			
SL NO	DESCRIPTION	AREA IN HACT.	PERCENTAGE OF AREA
1	TOTAL PLANT LAND AREA	51.411	
2	EXISTING GREEN BELT	14.9722	29.12%
3	PROPOSED GREEN BELT	2.3529	4.58%

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



INDEX:-

NH-44	
VILLAGE ROAD	
APPROACH ROAD	
STREAM/ NALA	
PLANT AREA	
EXISTING GREEN BELT	
PROPOSED GREEN BELT	
NEW DEVELOPED GREEN BELT	

TITLE:- PLANT LAYOUT WITH GREEN BELT AREA OF GOLDSTONE CEMENTS LTD.
 VILL.- MOOSIANG LAMARE, P.O.- KHLEHRIAT,
 ELAKA :- RYMBAL, DIST :- JAINTIA HILLS,
 MEGHALAYA-793210

AREA:- 51.411 Hact.	SCALE :- 1:3000
APPLICANT:-	

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

**Proceeding of the Public hearing held on the 27th November 2009 Proposed Cement plant
(Clinker 1.65 MTPA, Cement plant 2.54 MTPA) along with captive power plant (2 X 20 MW)
at Musiang Lamare Village in Jaintia Hills District, Meghalaya by M/s. Goldstone Cements Limited.**

The following are the list of persons present at the hearing and their comments/suggestions/remarks.

SI No	Name	Comments/Suggestions	Compliance
1	Headman, Musiang Lamare (Old)	Appreciated the efforts of the company and extends his support to the proposed project.	Agreed
2	Mr. Batskhem Lyngdoh, Dalloi Rymbai	Informed that as a Elaka they collectively agreed to grant consent to the proposed project and appealed to the NGOs to extend their support as well. He appealed to the residents of Elaka Rymbai present to stand up as show of support to the project.	Agreed
3	Mr. D.R. Ksih, Treasure, Elaka Rymbai	Extends his support to the proposed project.	Agreed
4	Shri KerHeadman Kairangson Bareh,	Supports the proposed project and urged the company to keep the promises made to the Elaka. He requested the NGOs to work collectively in the interest of the village.	Agreed GSCL has compiled each condition as per promises made to the Elaka.
5	Shri Lat Talang, Gen. Secy. Elaka Rymbai	Extends his support to the project.	Agreed
6	Shri. Emonlang Dkhar, Asst Secy. Elaka Rymbai	Appealed to the Company to maintain the ecology and environment of the area and extends his support to the project.	Agreed
7	Shri. H. Nongtdu, C.E.M. JHADC	Stated that industrialization brings about ecological change and urged the company to take care that the locals are not affected.	GSCL has taken all required pollution control measures.
8	Shri. Lait Sing Shylla, E.M., KHADC	Appealed to the company to maintain the green belt of the area and ensure that the health of the people of the area is not affected.	Green belt is developed. GSCL is providing the free medical services and free ambulance services in the nearby vicinity.
9	Shri.Kor Sympli, Byndihati	Welcomed the proposed project in the interest of development of the area and urged the company to fulfill the terms and conditions specified by the Elaka.	Agreed
10	Shri. Darwis Rymbai, President, Jaintia Hills People Indigenous Conference	Expressed his support to the proposed project.	Agreed
11	Shri. S.S. Kashanga	Stated that the locals aspire that with the coming up the company it will improve the welfare of the area. However, he is concern about the future generation. Educational and health aspects are primary areas that need attention. He urged the company to give priority to these issues.	GSCL is providing the free medical services and free ambulance services in the nearby vicinity.
12	Shri. Rinal Pala, Umulong	Extends his support and urged the company to ensure that water bodies and the environment are protected.	GSCL has taken all required pollution control measures.

13	Shri. Rimiki Suting, N.E. India Environment, Jainta Hills Unit	Is concern about the deforestation in the area. He extends his support to the company.	Agreed
14	Shri. Jwatmon Pariat, Moodymmai.	Extends his support to the proposal of M/S Goldstone Cements Ltd.	Agreed
15	Shri. Simeon Laloo, Farmer.	Feels it's a blessing that the company is setting up a cement unit in the area as it will benefit the farmers the unemployed youths and will also improve the education and health of the people.	GSCL has provided direct and indirect employment to the local to improve the standard of living.
16	Shri. R.L. Rymbai	Hopes that with the coming up of the company it will open up employment opportunities to the local people.	GSCL has provided direct and indirect employment to the local to improve the standard of living.
17	Shri. Nightstar Pariat, Moodymmai	Extends his support to the proposed project	Agreed
18	Shri. H.Lamin, MDC, KHADC.	Stated that due to low yield in the agricultural fields the local people have restored to migration to the urban areas to earn however, he feels that with the coming up of the company it will open up employment opportunities. He warned the company to fulfill its commitments. He extends his support to the unit.	Agreed
19	Shri. Spin Dkhar, Lumshnong	Extends his support to the proposed project. However, he regrets to state that the present cement units that have come up have failed to fulfill the commitments made to the local people.	Agreed
20	Shri. Ram Singh Lamare, Umulong	Extends his support to the project and urged the local Durbar to follow up the implementation of commitments made.	Agreed
21	Shri. Basterwell Bareh, Khliehriat	Stated that as the local Durbar has given its consent to the company, he supports the same.	Agreed
22	Shri. Fridolin Rymbai	Supports the proposed project and urged the Elaka not to issue NOCs to new applications for setting up Cement Units.	Agreed
23	Shri Daio Lapasam, Chehruphi	Extends his support to the proposed project and urged the company to ensure drinking water is available, environment is protected and employment opportunities open up for the locals.	GSCL has provided direct and indirect employment to the local to improve the standard of living. GSCL has taken all required pollution control measures.
24	Shri. Simon Siangshai	Expressed his happiness that the company is willing to invest in the area and supports the proposed project.	Agreed
25	Shri. Patrick Pala, Headman Byndihati	Extends the support of the local people and request the Dalloi's and Headmen to follow up the implementation of the agreement made.	Agreed
26	Shri. Bruno Shylla, Byndihati	Supports the proposed project and urged the company to fulfil its promises.	Agreed
27	Shri. Justine Dkhar, Deputy Headman, Khliehriat West.	Extends his support and appealed to the M.D. of the company to implement the presentation made.	Agreed

28	Shri. Alphon Dkhar, Khliehriat	Extends his support to the proposed project and urged the Company not to harass the locals when they seek employment in the factory.	Agreed GSCL has provided direct and indirect employment to the local to improve the standard of living.
29	Shri. Bindro Sympli, Diengshynrum.	Is in agreement with the support of the Elaka to the proposed project and express his gratitude to the company for investing in the area.	Agreed
30	Shri. Sherli SUna, Chehruphi	Supports the proposed project and urged the MSPCB to grant the required.	Agreed
31	Shri. Alphon Lyngdoh, Diengshynrum.	Supports the proposed cement unit and power project.	Agreed
32	Shri. Micheal Skhar, Diengshynrum.	Extents his support to the proposed project.	Agreed
33	Shri. S.K. Rai, Secy. Jainta Cement Association	Supports the proposed project.	Agreed
34	Shri. Shibun Lyngdoh, Khliehriat.	Supports the proposal and urged the company to implement modern technology so as to protect the environment and to take care of the welfare of the people.	GSCL has installed modern technology pollution control equipments to protect the environment. Company is providing free water facility. Free medical and ambulance facilities, free cements and subsidized cements to construct school, church, roads, cultural activities.

Goldstone Cements Limited, Musiang Lamare (old)

CSR Experiences

Sl. No.	Name of Company	EC Stipulation	Fund Allocation by the Agency (Rs.) Year Wise	List of Activities	Expenditure (Rs.)	Unspent Amount (Rs.) (Year Wise)
			FY			
1	M/s. Goldstone Cements Limited (EC No. J-11011/851/2008-IA II(I) dated 30.09.2010)	(SC-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, Shillong. Implementation of such program shall be ensured accordingly in a time bound manner.	FY 2014-15 Project not commissioned. Amount spent on CSR Rs. 886,088/- (upto FY 2014-15)	Village and Elaka Development, Welfare activities of Villagers and local residents, Assistance for Education, Assistance in village road construction, Assistance for celebration of festivals in local village, Assistance to Individual House Building undertaken by village and elaka residents, Assistance in construction of village market, Provision of safe drinking water in near by villages, repair of school building, donation of Hand Carts.	886,088	NA
			FY 2015-16 Project not commissioned. Amount spent on CSR Rs. 330,000/-		330,000	NA
			FY 2016-17 Phase -1 of Project Commissioned. Proportionate Project Cost of Phase I - Rs. 161,14,71,212/-, 5% of Project Cost of Phase -1 - Rs. 8,05,73,560/- Loss Incurred in Rs. 49.70 Cr.		280,733	79,076,739
			FY 2017-18 Loss Incurred Rs. 31.35 Cr. Amount Spent on CSR Rs. 23,06,318/-		2,306,318	76,770,421
			FY 2018-19 Amount Spent on CSR Rs. 62,76,150/-		62,76,150	65,395,901

Goldstone Cements Ltd.
Musiang Lamare (Old)

Investment Sheet of Pollution Equipments

SI.No	Particulars	Supplier	Equipment	Mechanical	Civil	Electrical & Instrument	Transportation (Equipment, steel, Electricals, miscellaneous)	Total
1	Crusher Bag Filter	Larsen &Tourbo, Kansbahal	4396200					
2	Raw Mill Bag House	Thermax	60683388	40000000	52500000	21000000	10000000	
3	Clinker Cooler ESP							
4	Bag Filter							
5	Auxillaries							
6	Ancillaries							
7	Cement Mill Bag House	Rieco	13878650					
8	Packing House Bag house	Flsmidth	3982307					
9	Bag Filter + Fans	Thyssenkrupp	2294403					
10	Fans for : (i) Raw Mill Bag House (ii) Cement Mill Bag House (iii) Clinker cooler ESP	Flaktindia	5131605					
11	Missellaneous + Others	Flexocon/L&T	2280695					
12	SOX/NOX analyser and opacity meters etc	Forbes Marshall	3348688					
13	DATA NORAMALISATION, DATA CONTROLLER,TEMPERETURE SENSOR, PRESSURE AND FLOW METER	NEVCO ENGINEERS PVT LTD.	500497					
	STACK MONITORING KIT	Envirotech	124490					
14	Commissioning/Supervision		4000000					
	Total		100620923	40000000	52500000	21000000	10000000	224120923
				(APPROX)	(APPROX)	(APPROX)	(APPROX)	(APPROX)

A TOTAL INVESTMENT IN POLLUTION CONTROL EQUIPMENT - 100620923/-

B TOTAL INVESTMENT IN CIVIL/MECHANICAL/TRANSPORTATION OF POLLUTION CONTROL EQUIPMENT - 123500000/- (APPROX)

TOTAL A+B

224120923

Goldstone Cements Limited

Recurring Pollution Control Expenditure for 2018-19

upto Date: 31.03.2019

SI No	Date	Particulars	Purchase Order Number	Quantity	Amount
1	04.05.2018	Bag Filter 149MM dia X 7060 MM LG	PGMS/00058/18-19	1000 bags	5510410
2	19.06.2018	Bag Filter 160MM dia X 4550 MM LG	PGMS/00228/18-19	200 bags	863760
3		Filter Bags-149MM DIA X 4265 MM LG		400 bags	
4	12.07.2018	Bag Filter 149MM dia X 7060 MM LG	PGMS/00294/18-19	1000 bags	5510410
5	20.07.2018	Solenoid Valve spare kit for Cement mill, Coal Mill,Raw Mill bag Filter	PGKS/00109/19-19		124519.5
6	07.08.2018	Filter Bags-149MM DIA X 4265 MM LG	PGMS/00354/18-19	700 bags	892080
7	11.08.2018	Filter Bags Cage	PGMS/00369/18-19	700 bags	1342132
8	22.08.2018	Bag Filter 160MM dia X 4550 MM LG	PGMS/00400/18-19	350 bags	584080
9	29.06.2018	Sox Nox Analyser spare parts	PGKS/00100/18-19		444187
10	22.09.2018	Opacity Monitor and spare parts	PGKS/00140/18-19		1117342
11	25.10.2018	ESP Spare parts	PGKS/00157/18-19		1033416
12	31.03.2019	Greenbelt Development			27000
13	31.03.2019	Third party environmental monitoring			751660
14	31.03.2019	Salaries and wages for Environmental activities			1149000
15	31.03.2019	Construction of Concrete road			775336
		Toal			20125332.5

GOLDSTONE CEMENTS LIMITED
Musiang Lamare (Old)
ENVIRONMENTAL INFORMATION BOARD
Ambient Air Quality, Stack Emission, Noise & Water Analysis Data

1. AMBIENT AIR QUALITY (µg/m³)		Locations		Remissible Limits	
Monthly	Date of Monitoring	Near CPP	Near Fly Ash Shed	Near National Ambient Air Quality Standards	Near Residential Area
(A) Particulate matter (2.5)	13-03-19	56.8	52.8	55.9	50.2
(B) Particulate matter (>10)		98.9	95.4	97.8	88.2
(C) Sulphur Dioxide-SO ₂		26.1	21.4	19.2	15.8
D Nitrogen Dioxide-NO ₂		43.2	38.6	28.9	24.8
2. STACK EMISSION		Date of Monitoring		Remissible Limits	
		Locations	Monthly Average Results	Average Results	
1. Raw Mill		19.2	3935	2014	30
2. Coal Mill		23.7	3468	1448	-
3. Cooler ESP		21.5	BDL	BDL	-
4. Cement Mill		23.7	BDL	BDL	-
5. CPP		37.4	4771	2246	50
3. WATER QUALITY		Date of Monitoring		Results Limits	
		Water (Results)	Remissible Limits (mg/l)	FUGITIVE EMISSION (µg/m³)	
1. PH		7.2	6.5-8.5	Flyash Storage	2374
2. Total Dissolve Solids (mg/l)		166	< 500	Section	5000
3. RfC (mg/l)		-	-0.2	Coal Storage	1920
4. Chloride (mg/l)		3.2	250	Section	2000
5. Total Hardness (mg/l)		5.8	200	Limestone Storage	1786
6. Total Alkalinity (mg/l)		92.0	"	Section	5000
7. Calcium (mg/l)		260	-75	Cement Packing	2426
8. Magnesium (mg/l)		33	-30	Section	5000
4. NOISE LEVEL DATA		NEAR ADMIN BUILDING		NEAR CEMENT MILL	
		52	73	60	66
		64	73	67	71
		< 70			70 (PRA)
		< 64			70 (PRA)
A) Industrial Area		Result	NEAR ADMIN BUILDING	NEAR CEMENT MILL	NEAR STANDER
Day Time		64	73	67	71
Night Time		< 64			70 (PRA)



Annex-11
office copy

BLACKTIGER
C E M E N T

HILA NA PAOGE

Ref No: GSCL/EHS/2018-19/08
Dated: 30.11.2018

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

Sub: Six monthly compliance of environment clearance letter of M/s Goldstone cements Ltd,
Vill: Musiang Lamare (old), Khliehriat, East Jaintia Hills, and 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 Compliance report for the period 01.04.2018 to 30.09.2018 on Environmental Stipulations for our Cement Plant along with Captive Thermal Power plant located at Vill Musiang Lamare (old), Khliehriat, Dist :East Jaintia Hills, Meghalaya -793200.

Thanking You,

Yours faithfully
For Goldstone Cements Ltd


Authorised Signatory




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

2. Member Secretary, Meghalaya State pollution Control Board, "ARDEN" Lumpyngngad, Shillong-793014, Meghalaya.

Enc:-

1. Environmental Monitoring Report for the period 01.04.2018-30.09.2018


2. Environmental Statement (Form V) for the Period 01.04.2017-31.03.2018

Central Pollution Control Board
निदेशालय उत्तर पूर्व शिलांग - ७९३०१४
Regional Directorate - North East, Shillong - 793014
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO

Goldstone Cements Limited

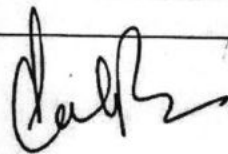
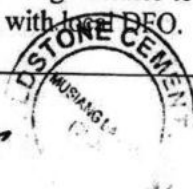
CIN No. : U26940ML2007PLC008298 DATED


03/12/18

COMPLIANCE REPORT (HALF YEARLY) from 1 st April 2018 to 30 th Sept 2018. ON ENVIRONMENTAL STIPULATIONS FOR CEMENT PLANT (CLINKER, 1.65 MTPA; CEMENT, 2.0 MTPA) ALONG WITH CAPTIVE THERMAL POWER PLANT (2 x 20 MW) AT VILL MUSIANG LAMARE (OLD), P.O.KHLIEHRIAT , DIST. EAST JAINTIA HILLS, MEGHALAYA OF M/S GOLDSTONE CEMENTS LTD – ENVIRONMENTAL CLEARANCE VIDE MOEF LETTER NO. J-11011/851/2008-IA II (I), DATED 30.09.2010.		
SL. NO	CONDITIONS	COMPLIANCE
	A. SPECIFIC CONDITIONS	
i	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. After expansion, limit of SPM shall be controlled within 50 mg/Nm ³ by installing adequate air pollution Control system. Electrostatic precipitators (ESP) to clinker cooler, bag house raw mill/kiln and bag filters to coal mill and cement mill. Low NOx burners should be provided to control NOx emissions.	<ul style="list-style-type: none"> •The Continuous Stack Monitor (Opacity Meters) is in working condition and online data transferred to CPCB & MSPCB. •ESP (Electrostatic Precipitators) for Clinker cooler, Bag house/Bag filters for Raw Mill / Coal Mill & other pollution control equipments were already installed in plant to keep SPM below 30 mg/Nm³ in Cement Plant stacks and 50 mg/Nm³ in Captive Power Plant stack as per our consent guideline.
ii	Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB). A feasibility report shall be prepared and submitted to the ministry and its Regional office at Shillong within 03 months from the date of issue of the letter.	Hot gases generated from kiln are required for drying out moisture in Raw Mill and Fuel. Hence Kiln waste heat is being utilized partially in Raw Mill and partially in Coal Mill to meet our operational requirement. Some heat is lost in clinker cooler. We have explored the Cement plant in the Vicinity and none of them have installed Waste Heat Recovery Plant. In Cement Plants, Hot Gas generation takes place only from Kiln Section. In our case the installed capacity of kiln is only 1700 TPD and after utilization of Hot Gases in Raw Mill and Coal Mill, it becomes uneconomical to justify one WHRB in view of its capital cost.
iii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November 2009 shall be followed.	The same is being followed during operation of plant. Ambient air quality monitoring is being done through Third party (Recognized laboratory). Ambient air quality parameters are found to be within the limit for all the parameters. <i>(Details attached as per Annexure-1)</i>
iv	Secondary fugitive emission shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of practice issued by the CPCB in this regard should be followed.	All material transfer points are provided with Bag filters to control fugitive emission. 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. <i>(Details attached as per Annexure-1)</i>
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.

(Signature)

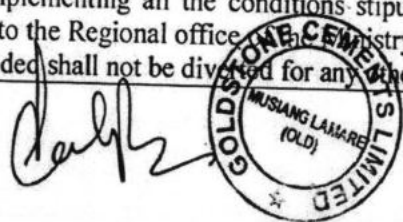

vi	Total water requirement for cement and captive power plant shall not exceed 2,370 m ³ / day. All the treated wastewater shall be recycled and reused in the process and / or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'Zero' discharge should be adopted.	Total water requirement is much below the stipulated limit of 2,370 m ³ / day as our Plant has been designed as per close circuit arrangements for cooling water. Company has adopted "ZERO discharge" of waste water.
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 liters capacity in the west side; however 14 lac liters capacity reservoir is planned.
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.
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.
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).	Fly ash generated in our captive power plant is completely used in-house in manufacturing of Pozzolana Portland Cement (PPC)
xi	Effort shall be made to use low-grade lime, more fly ash and solid waste in the cement manufacturing.	Low grade limestone / Dolomite Stones are blended with high quality grade lime time. Fly ash generated in CPP is used in-house in manufacturing of Pozzolana Portland Cement (PPC). We are manufacturing around 80% PPC with blend of fly ash and around 20% OPC (approximately).
xii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision should be made accordingly.	We are exploring regular availability of hazardous waste and accordingly necessary provisions for its utilization would be worked out.
xiii	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.	The green belt plan to achieve 33 % area coverage is already finalized. Coverage in major area has been in place. Plantation in balance area is under progress. Plantation of Native species is being done in consultation of DFO.

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 27 th 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.	Being implemented.
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.	CSR activities are conducted in current year. We are providing subsidized cement bags to local people. We are sponsoring for local cultural activities. We are providing free medicines, ambulance service to local community.
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.	Company has already constructed workers accommodations with all necessary infrastructure and facilities such as Fuel for cooking, Toilets & Bathrooms, safe drinking water, medical health care etc.
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 CTE and 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.	There will be no expansion or modifications beyond permissions already granted without prior approval of MoEF.
iii	The gaseous emissions from various process units shall conform to the load / mass based standards notified by this Ministry on 19 th 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 newly commissioned unit with more sophisticated technologies is able to meet with the new standards of 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 PM ₁₀ , 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 month.	At present, monthly monitoring of ambient air quality is being carried out with the help of recognized laboratory. Online emission monitoring system is installed in all the major stacks. Compiled data are submitted to MOEF&CC, CPCB and MSPCB once in six months. We have also started to submit the Environment Monitoring reports once in every month to MOEF&CC, CPCB and MSPCB. <i>(Details attached as per Annexure-I)</i>
v	Industrial wastewater 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 bearing in the cement plant are 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. <i>(Details attached as per Annexure-I)</i>
vii	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	The health care centre is already available in our Plant Campus. Trained and Staff and Visiting Doctor appointed with essential medicine for health surveillance 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.	A catchment reservoir to collect over flowing stream water has been constructed. More such systems are being explored and planned.
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. 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 Ministry at Shillong. The Funds so provided shall not be diverted for any other purpose	We have expended necessary amount towards capital cost for environment pollution control measures to implement the conditions stipulated by the Ministry of environment & Forests as well as the state government. We are also expending necessary amount towards 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.



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.	Has been implemented. 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 , NO _x (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.	Six monthly monitoring data are being Submitted to MoEF&CC, CPCB and MSPCB periodically.
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.	Noted and being followed.
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.	Environmental Statement (Form V) for the year 2017-18 has been Submitted to Regional office of the State Pollution Control Board, MoEF and CPCB. <i>Details attached as per Annexure-II)</i> The process shall be followed for each FY.



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.	Has been implemented.
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.	Followed the norms and land development work completed accordingly.

For Goldstone cements Ltd.

[Handwritten Signature]
Authorized Signatory





Ref: GSCL/EHS/2018-19/05

Dated 14.10.2018

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



Sub: Submission for Environmental Statement (Form-V)

Sir,

With reference to the subject as cited above, we would like to submit Environmental Statement (Form-V) for the period 01.04.2017 to 31.03.2018. We have enclosed Monthly Environmental Monitoring Report for your reference.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully
For Goldstone Cements Ltd

Authorised Signatory



Encl: Monthly Environmental Monitoring Report.

CC: 1. Regional Director, Central Pollution Control Board, Regional Directorate-North East.
2. Ministry of Environment Forest & Regional office, Shillong.

Central Pollution Control Board
क्षेत्रीय निदेशालय उत्तर पूर्व शिलांग - ७९३०१४
Regional Directorate - North East, Shillong - 793014
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
Ministry of Environment, Forest & Climate Change, Govt. of India
RECEIPT NO
DATED 16/10/18



Goldstone Cements Limited
CIN No. : U26940ML2007PLC008298

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

Factory Office
Village Musiang Lamare(Old),
Kliehriat, East Jaintia Hills,
Meghalaya - 793200

Sales & Marketing Office
5A, 5th Floor, Shine Towers, 57 Sati Jaymati Road
Arya Chowk, Rehabari, Guwahati, Assam 781008
P +91-361-2607071/72

ENVIRONMENTAL STATEMENT (FORM -V)

Of

M/S GOLDSTONE CEMENTS LTD.

Vill - Musiang Lamare (old), Khliehriat, Dist - East Jaintia Hills, Meghalaya
(1st April 2017 - 31st March 2018)

PART -A

- | | |
|---|--|
| 1. Name and address of the owner/
Occupier of the Industry operation
Or process | Shri M K Ghosh
Plant Head
M/S Goldstone Cements Ltd.
Vill Musiang Lamare (old), Khliehriat
Dist- East Jaintia Hills, Meghalaya |
| 2. Industry Category
Primary (S. T. C. Code)
Secondary (S. T.C. Code) | Red Category |
| 3. Production Capacity | 0.88 Million Ton Cement
0.56 Million Ton Clinker
10 MW Captive Power Plant |
| 4. Year of establishment | 2010. Commercial Production on 02.07.2016 |
| 5. Date of the Last Environmental
Statement Report Submitted | 04.11.2017 |

PART-B

Water and Raw Material Consumption

I. Water Consumption m³/d:

- | | |
|--|----------------------------|
| Process | : 250 m ³ / day |
| Cooling, re circulation and dust suppression | : 60 m ³ /day |
| Domestic | : 150 m ³ /day |

Name of Product	Process Water consumption per Unit of Product Output	
	During Previous Financial Year (16-17)	During Current Financial Year (17-18)
Cement	0.15 m ³ /ton	Nil
Power		1.05 m ³ /thousand Kwh

II. Raw Material Consumption

Name of Raw Material	Name of Product	Consumption of Raw Material		
		During Previous Financial Year (16-17)(MT)	During Current Financial Year (17-18) (MT)	Consumption of raw material per Unit of output
1. Lime stone & Dolomatic Stone	Cement	2,06,606.14	5,62,751.61	1.41
2. Additives		26,831.838	72,112.607	0.18
3. Fly ash		139.000	45,134.159	0.23
4. Gypsum		20.600	555.841	0.00

PART- C

Pollution Discharged to Environment/Unit of Out Put:

Sl. No	Pollutants	Quantity of Pollutants Discharged (Mass/day)	Concentration of Pollutants in Discharge (Mass/Volume)	Percentage of Variation from prescribed standard with reason
a)	Water	N.A.	N.A.	As plant is being operated on dry process technology, no liquid effluent is generated from the cement plant process. Domestic water generated from residential colony, office toilets and mess is disposed off in soak pit via septic tank. We have installed Effluent Treatment Plant / Sewage Treatment Plant.
b)	Air	Please refer Annexure- I, II, III & IV		

PART -D

Hazardous Waste

All the quantity of used oil & used grease come out as reject from different gear application and bearings are sold to authorized recycler & used in in-house.

Hazardous Waste	Total Quantity (Liters/Kgs)	
	During Previous Financial Year (2016-17)	During Current Financial Year (2017-18)
a) Used oil & Grease	15,000 Lits/Year.	11470 Lits
b) Fly Ash	3632890 Kgs	13768046 Kgs
c) Chemical Container	----	198 Nos
d) Turbine Oil	----	104 Ltrs
e) Gear Oil	----	560 Ltrs

PART- E

Solid Waste

Sl. No.	Solid Waste	Total Quantity in MT	
		During Previous Financial Year (16-17)	During Current Financial Year (17-18)
a)	From Process	NIL	NIL
b)	From Pollution Control Facility	Dust Collected in ESPs, Bag Houses and Bag Filters are recycled back into the System.	
c)	1) Quantity recycled or re-utilized within the unit	100%	100%
	2) Sold	NIL	NIL
	3) Disposed (Fly ash generated from CPP & consumed into Cement Plant)	Fly Ash- 3632.89 MT	Fly Ash - 13768.046 MT
d)	Iron Scrap	NIL	20.24 MT
e)	Old & Used I.T. Materials	NIL	0.015 MT

PART -F

Please Specify the Characterization (in terms of composition and quantum) of Hazardous as well as Solid waste and indicate disposal practice adopted for both these categories of wastes.

Hazardous Waste:-

Description of Hazardous Waste	Qty. of waste generated during the year (17-18)	Disposal Method
a) Used oil & Grease	11470 Lits/Year.	300 Ltr used oil used in lubrication of DPC Chain 2140 Kg Grease used in lubrication of Kiln seal Remaining are kept in central store and may be sold to authorized recycler.
b) Fly Ash	13768046 Kgs	consumed in cement plant
c) Chemical Container	198 Nos	Kept at central Store in designated place and may be sent to seller for refilling
d) Turbine Oil	104 Ltrs	Kept at central Store and may be used after filtration.
e) Gear Oil	560 Ltrs	Kept at central Store in designated place

Solid Waste:-

Other Solid Waste	Qty. of waste generated during the year (17-18)	Disposal Method
a) Iron Scrap	20.24 MT	17.73 MT sold to authorized vendor. Remaining are kept in central store in scrap yard.
b) Old & used I.T. materials	0.015 MT	Kept at central Store in prescribed place

PART -G

Impact of the pollution control measure on Conservation of natural resources and consequently on the cost of production

M/s Goldstone Cement Ltd is making continuous efforts to conserve natural resources with environmentally Sound and green technology.

Adopted dry process technology, where there is no water consumption also makes zero effluent discharge from the plant. The advantage of dry process is also in fuel economy. The stack emissions from the plant are controlled by equipment like ESPs, and Bag Houses.

Designed to control the emission (SPM) level within permissible Limits.

The dust is collected in the above mentioned dust catchers. This dust is recycled to the system, so as to convert finally to the product. These ways the natural resources are conserved in the system.

The Pollution abatement practices adopted by us save precious raw material/ product and greatly help in conserving valuable natural resources. Ultimately reducing the manufacturing cost.

Total 5 nos. of opacity monitor already installed in Raw Mill & Kiln Stack, Coal Mill Stack, Cooler ESP stack, Cement Mill Stack & CPP stack and real time data are being transferred to CPCB, New Delhi.

Bag filters are installed in each transfer points to reduce the fugitive emissions. The material collected in the hoppers of pollution control equipment, recycled back into process, neutralize the cost of operation of pollution control equipment. Hence no cost impact on the production cost.

PART- H

Additional measures/ investment proposal for environmental protection including abatement of pollution

Development of greenbelt in & around the plant & colony.

Planting trees is ongoing process. Around 2012 nos. of sapling of different native species was planted during the FY 2017-2018. The said program will continue for coming year also.

Water tanker is used for spraying in the plant area as well as the nearby regularly for dust suppression.

Suitable interlocks have been provided for Gear box & Girth Gear Cooling fans to avoid idle running of these fans.

PART- I

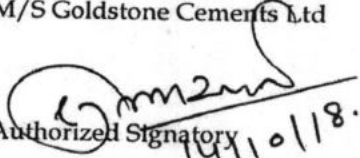
Any other particulars for improving the quality of the environment

1. Continuous monitoring of stack emission, ambient air, and noise and water quality is done. Necessary action plan is prepared and implemented accordingly.
2. Scheduled maintenance of all the pollution control devices is done on regular basis.
3. More number of Plantation will be done in the coming future.
4. Water sprinkling on the unpaved surface for dust suppression.
5. Development of greenbelt in & around the plant & colony. The tree species planted are Neem, Khokon, Champa, Agarwood, Mahagony, Bokul, Mango, Litchi, Black Jamun, Almond, Cycus, Green Hedge, Coloured Hedge, Fycus, Royal Plam, Areca Plam, Thuja, Red Bottle Brush, Ashoka, Gulmohor, Golden Bottle Brush, Chinese Plam, Night Jasmine, Ceylon, Tahiti, Aclypha, Hibiscus, yucca Aloifolia, Phonix, Furcraea, Budhist Bamboo, Bougenvelia, Draceena, Calendula, Crysanthemum, Phlox, Merigold, , Primola, Rananculus, Statics, Cosmos, Dianthus, Dhalia, Gazania, Poppy, Petunia, Lily, Anthurium, Bolsom, Verbena, Salvia, Vinka, Exora, Celosia etc. Rate of survival 93%.
6. Proper lubrication and housekeeping to avoid excessive noise generation.

To substantiate above statement, latest emission monitoring report is enclosed herewith.

- Annexure- I : Ambient air quality report
Annexure- II : Fugitive Emission report
Annexure- III : Stack Emission level report
Annexure- IV : Ambient Noise quality report.

M/S Goldstone Cements Ltd


Authorized Signatory

14/10/18.



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Report No.: ENV/GSCL/AAQ/SEPT/18-19/01

Date : 01/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.- Khliehriat

Meghalaya- 793200

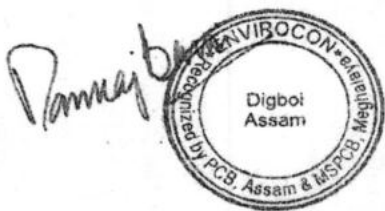
AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s) ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	NO ₂ (µg/m³)	SO ₂ (µg/m³)
	Limit(s) →		60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	Near CPP	20.09.2018	--	65.2	12.8	5.8
		21.09.2018	30.2	--	--	--
2.	Near Secondary Crusher	20.09.2018	--	69.8	9.6	5.1
		21.09.2018	26.1	--	--	--
3.	Near Fly Ash Shed	20.09.2018	--	73.9	8.4	ND
		21.09.2018	34.6	--	--	--
4.	Near Temple	20.09.2018	--	51.8	5.2	ND
		21.09.2018	19.2	--	--	--

ND: Not Detected

Analysis Protocol: IS 5182

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/FE/SEPT/18-19/01

Date : 01/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat

Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
22.09.2018	Fly-ash Storage Section	2413	5000
21.09.2018	Coal Storage Section	924	2000
21.09.2018	Limestone Storage Section	1846	5000
22.09.2018	Cement Packing Section	2761	5000

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/SEPT/18-19/04

Date : 01/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.: - Khliehriat

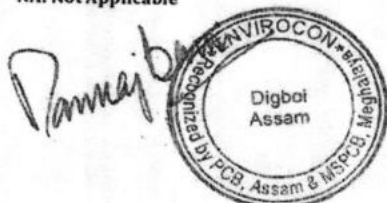
Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/SEPT/18-19/04		
02	Date of Sampling	21.09.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Flue Gas Temperature (°C)	65		
06	Exit Velocity of Gas (m/sec)	12.2		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	28.2	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL	mg/Nm ³	800

BDL: Below Detection Limit

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SE/SEPT/18-19/05
Date : 01/10/2018

GOLDSTONE CEMENTS LIMITED
Village- Musiang Lamare (Old)
P. O.-: Khliehriat
Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/SEPT/18-19/05		
02	Date of Sampling	21.09.2018		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Flue Gas Temperature (°C)	89		
06	Exit Velocity of Gas (m/sec)	8.5		
07	Type of Fuel Used	Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	33.9	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	534.3	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	200.5	mg/Nm ³	300

Pankaj Baroi

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Report No.: ENV/GSCL/SE/SEPT/18-19/03

Date : 01/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

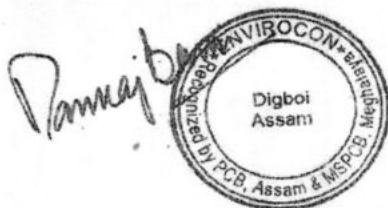
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Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/SEPT/18-19/03		
02	Date of Sampling	21.09.2018		
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)	13.1		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	25.3	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	175.2	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	79.2	mg/Nm ³	800

*NA: Not Applicable



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Report No.: ENV/GSCL/SE/SEPT/18-19/02

Date : 01/10/2018

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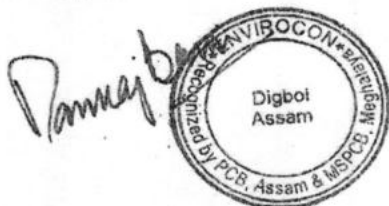
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STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/SEPT/18-19/02		
02	Date of Sampling	20.09.2018		
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)	8.3		
07	Type of Fuel Used	NA*		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	26.8	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	349.8	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	194.7	mg/Nm ³	800

*NA: Not Applicable



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Date : 01/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.-: Khlehriat

Meghalaya- 793200

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	GSCL/SE/SEPT/18-19/01		
02	Date of Sampling	20.09.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
05	Flue Gas Temperature (°C)	177		
06	Exit Velocity of Gas (m/sec)	12.4		
07	Type of Fuel Used	Kiln Coal		
08	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	21.4	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	720.8	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	329.3	mg/Nm ³	800

Pankaj Baroi

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Report No.: ENV/GSCL/NLM/SEPT/18-19/01

Date : 01/10/2018

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.- Khliehriat

Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 28.08.2018

Sl. No.	Location(s)	Day time		Night Time	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	71	75	62	70
2	Near CPP Area	68	75	59	70
3	Near Limestone Storage Yard	63	75	48	70
4	Near Coal Storage Yard	62	75	53	70
5	Near R. A. B. H.	73	75	60	70
6	Near Cement Mill	69	75	62	70
7	Near Administrative Building	61	75	46	70
8	Power House	74	75	68	70

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