



HILA NA PAOGE

Dated: 27.11.2020

No: GSCL/EHS/2020-21/17

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, Meghalaya-793200

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

Dear Sir,

With the matter as cited in the subject, we would like to submit the Half Yearly EC
Compliance report for the period 01.04.2020 to 30.09.2020 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"
Lumpyngngad, Shillong-793014, Meghalaya.



Goldstone Cements Limited

CIN No. : U26940ML2007PLC008298

COMPLIANCE REPORT (HALF YEARLY) from 1 st APRIL 2020 to 30 th SEPTEMBER 2020 ON ENVIRONMENTAL STIPULATIONS FOR CEMENT PLANT [CLINKER-1.65 MTPA (INSTALLED - 0.56 MTPA)]; [CEMENT- 2.0 MTPA (INSTALLED - 0.88 MTPA)] ALONG WITH CAPTIVE THERMAL POWER PLANT [2 x 20 MW (INSTALLED - 10 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 NO _x burners should be provided to control NO _x emissions.	<ul style="list-style-type: none"> •The Continuous Stack Monitor (Opacity Meters) is in working condition and online data is being 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 PM 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, 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>
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.	<p>The same is being followed during operation of plant. Ambient air quality monitoring is being done as per standards.</p> <p>Ambient air quality parameters are found to be within the limit for all the parameters. <i>(Details attached in Annexure-1)</i></p>
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. Construction of concrete roads is under progress in the plant. <i>(Photographs are enclosed in Annexure:2)</i></p> <p>Dust suppression is being done through water sprinklers installed in limestone crusher 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 are 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 in 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.	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 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 limestone. Fly ash generated in CPP is used in manufacturing of Pozzolana Portland Cement (PPC). We are manufacturing more of PPC over OPC.

xii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision should be made accordingly.	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. Recently a mass plantation of around 5000 saplings was made on 14 th August 2020. 31.8% area is already under greenbelt. Balance and required plantation shall be done in phase manner. <i>(Greenbelt development Drawing is enclosed in Annexure :5)</i>
xiv	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants should be implemented.	All recommendations were considered during the design of plant and machineries and as such all the issues in this regard are complied with.
xv	All the commitments made to the public during the Public Hearing / Public consultation meeting held on 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. 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.
xvi i	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Phase-1 of Project has already been completed. During Phase-1 project, all such facilities were ensured. Whenever next phase of project will commence in future, same shall again be adhered to.
B. GENERAL CONDITIONS		
i	The project authorities must strictly adhere to the stipulations made by the Meghalaya State Pollution Control Board and the State Government.	Stipulations mandated in the 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 months.	At present, monthly monitoring of ambient air quality is being carried out. Online emission monitoring system is installed in all the major stacks. Data on ambient air quality and stack emission are submitted to MOEF&CC, CPCB and MSPCB once in six months. <i><u>(Details are attached as per Annexure-1)</u></i>
v	Industrial waste water shall be properly collected, treated so as to conform 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><u>(Details are attached as per Annexure-1)</u></i>
vii	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance to our workers are conducted as per factory act However, the health care center is already available in our Plant Campus. Trained staff and Doctor are available 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><u>(Photographs are enclosed in Annexure:4&4a)</u></i>

ix	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We are working on the implementation of the conditions given in EIA/EMP. We are sponsoring for community development programmes. We are providing the drinking water facility in nearby village. 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 22.52 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. 2.84 Cr amount towards recurring cost for environment pollution control measures. <i>(Details are enclosed in annexure: 6)</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 and LED Display board have been provided near company main gate. <i>(Photograph is enclosed in annexure-7 & 7a)</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, the respective Zonal office of CPCB and the SPCB. The Regional office of this Ministry at Shillong / CPCB /SPCB shall monitor the stipulated conditions.	Being Complied

xiv	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional office of the MOEF at Shillong by e-mail.	Being complied
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Shillong.	Same was implemented at the time of Phase-1 Project. Phase-1 project has since been completed.
xvi	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Project Phase-1 has been completed complying with stipulated condition.

Amendment in Environmental Clearance conditions related sourcing of coal for the Thermal Power Plants in the State of Meghalaya in pursuant to the proceeding of the Committee Constituted by Hon'ble NGT held on 25.03.2019 -reg. Office Order No: J-13015/ 17/2019-IA.I(T) Dated: 16.09.2019.

SL. NO	CONDITIONS	COMPLIANCE
i	Local coal source from Meghalaya State shall not be used for operation of power plant unless the Coal mine in Meghalaya has a valid mining lease and approved Mine Plan under Mines and Minerals (Development and Regulation) Act, 1957 & its amendments and connected Regulations. In addition, the Coal Mine from the State of Meghalaya shall also have valid Environmental Clearance (leases with more than 5 ha under EIA	Being complied

	Notification, 1994; leases with more than equal to 5 ha under EIA Notification, 2006 up to 15.01.2016; all coal mining leases irrespective of lease area from 15.01.2016 onwards).	
ii	The Project Proponent shall submit the source of the coal mine, its location, along with boundary co-ordinates of lease, quantity of coal transported along with the mode of transportation, copies of valid mining lease, approved mine plan and Environmental Clearance to the Ministry and its Regional Office before sourcing the coal from Meghalaya State. Further, this information is to be updated and submitted along with the Six Monthly EC compliance report to the Ministry and its Regional Office.	No coal is being sourced from the state of Meghalaya.

For Goldstone cements Ltd.



 Authorized Signatory
 

Annexure – 1
Environmental
Monitoring Reports

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298




April - 2020

STACK EMISSION MONITORING RESULTS

(Monthly Average Values)

S.No.	Stack Attached To	PM (30 mg/Nm3)	SO2 (1000 mg/Nm3)	NOx (600 mg/m)
1	Raw Mill & Kiln	20.2	467.7	265.2
2	Coal Mill	23.8	----	----
3	ESP	23.3	----	----
4	Cement Mill	22.5	----	----
5	CPP	PM (50 mg/Nm3)	SO2 (600 mg/Nm3)	NOx (300 mg/m)
		26.6	459.5	217.8


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



April - 2020

NOISE LEVEL MEASUREMENT RESULTS

S.No.	Locations	Day time		Night Time	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	66	75	60	70
2	Near CPP Area	57	75	51	70
3	Near Limestone Storage Yard	58	75	52	70
4	Near Coal Storage Yard	56	75	50	70
5	Near Raw Mill	70	75	62	70
6	Near Cement Mill	67	75	61	70
7	Near Administrative Building	60	75	54	70
8	Power House	68	75	61	70


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



AMBIENT AIR QUALITY MONITORING RESULTS April -2020

Stations Name	Parameters Results			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
	Limit 100 µg/m ³	Limit 60 µg/m ³	Limit 80 µg/m ³	Limit 80µg/m ³
Near CPP Water Reservoir	57.6	28.3	8.0	18.5
Near CCR Material Yard	58.4	29.1	8.7	17.4
Near Guest House Yamuna Sadan	50.7	27.5	6.4	16.7
Residential Colony	46.5	20.6	3.4	7.6

PROCESS FUGITIVE EMISSION TEST RESULTS April - 2020

Locations	Fugitive Emission Results SPM (µg/m ³)	Limits (µg/m ³)
Fly Ash Storage Section	1124	5000
Coal Storage Section	650	2000
Lime Storage Section	1824	5000
Cement Packing Section	1532	5000


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



May - 2020

STACK EMISSION MONITORING RESULTS (Monthly Average Values)

S.No.	Stack Attached To	PM (30 mg/Nm ³)	SO ₂ (1000 mg/Nm ³)	NO _x (600 mg/m)
1	Raw Mill & Kiln	22.6	484.1	251.6
2	Coal Mill	21.2	----	----
3	ESP	21.6	----	----
4	Cement Mill	24.1	----	----
5	CPP	PM (50 mg/Nm ³)	SO ₂ (600 mg/Nm ³)	NO _x (300 mg/m)
		26.5	443.1	223.3


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



May - 2020

NOISE LEVEL MEASUREMENT RESULTS

S.No.	Locations	Day time		Night Time	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	68	75	62	70
2	Near CPP Area	59	75	53	70
3	Near Limestone Storage Yard	57	75	52	70
4	Near Coal Storage Yard	58	75	49	70
5	Near Raw Mill	71	75	63	70
6	Near Cement Mill	69	75	61	70
7	Near Administrative Building	59	75	52	70
8	Power House	69	75	64	70

Analysed By

Verified By

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

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



AMBIENT AIR QUALITY MONITORING RESULTS May - 2020

Stations Name	Parameters Results			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
	Limit 100 µg/m ³	Limit 60 µg/m ³	Limit 80 µg/m ³	Limit 80 µg/m ³
Near CPP Water Reservoir	48.6	22.8	7.5	16.5
Near CCR Material Yard	45.8	20.3	6.8	15.6
Near Guest House Yamuna Sadan	36.4	18.2	6.6	14.8
Residential Colony	32.6	14.8	ND	7.6

ND : Not Detected

PROCESS FUGITIVE EMISSION TEST RESULTS May -2020

Locations	Fugitive Emission Results SPM (µg/m ³)	Limits (µg/m ³)
Fly Ash Storage Section	1020	5000
Coal Storage Section	536	2000
Lime Storage Section	1564	5000
Cement Packing Section	1610	5000


Analysed By


Verified By

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

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



June - 2020

STACK EMISSION MONITORING RESULTS (Monthly Average Values)

S.No.	Stack Attached To	PM (30 mg/Nm ³)	SO ₂ (1000 mg/Nm ³)	NO _x (600 mg/m)
1	Raw Mill & Kiln	20.2	443.1	286.2
2	Coal Mill	18.1	----	----
3	ESP	23.5	----	----
4	Cement Mill	16.5	----	----
5	CPP	PM (50 mg/Nm ³)	SO ₂ (600 mg/Nm ³)	NO _x (300 mg/m)
		29.6	471.8	220.6


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



June - 2020

NOISE LEVEL MEASUREMENT RESULTS

S.No.	Locations	Day Time (6:00 AM - 9:00 PM)		Night Time (9:00 PM - 6:00 AM)	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	69	75	61	70
2	Near CPP Area	61	75	55	70
3	Near Limestone Storage Yard	58	75	52	70
4	Near Coal Storage Yard	60	75	54	70
5	Near Raw Mill	72	75	63	70
6	Near Cement Mill	68	75	64	70
7	Near Cement Plant CCR Building	57	75	53	70
8	Near CPP TG Building	68	75	62	70


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



AMBIENT AIR QUALITY MONITORING RESULTS June - 2020

Stations Name	Parameters Results			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
	Limit 100 µg/m ³	Limit 60 µg/m ³	Limit 80 µg/m ³	Limit 80 µg/m ³
Near CPP Water Reservoir	46.4	20.2	8.6	18.8
Near Guest House Yamuna Sadan	34.8	17.6	6.2	14.2
Near CCR Material Yard	45.6	15.8	6.6	16.4
Residential Colony	28.4	12.6	ND	6.6

ND : Not Detected

PROCESS FUGITIVE EMISSION TEST RESULTS June -2020

Locations	Fugitive Emission Results SPM (µg/m ³)	Limits (µg/m ³)
Fly Ash Storage Section	1084	5000
Coal Storage Section	620	2000
Lime Storage Section	1456	5000
Cement Packing Section	1680	5000


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED


CIN: U26940ML2007PLC008298




July - 2020

STACK EMISSION MONITORING RESULTS (Monthly Average Values)

S.No.	Stack Attached To	PM (30 mg/Nm ³)	SO ₂ (1000 mg/Nm ³)	NO _x (600 mg/m)
1	Raw Mill & Kiln	21.8	439.0	313.4
2	Coal Mill	19.9	----	----
3	ESP	25.3	----	----
4	Cement Mill	21.6	----	----
5	CPP	PM (50 mg/Nm ³)	SO ₂ (600 mg/Nm ³)	NO _x (300 mg/m)
		29.9	414.3	205.2

Analysed By 

Verified By 

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



July - 2020

NOISE LEVEL MEASUREMENT RESULTS

S.No.	Locations	Day Time (6:00 AM - 9:00 PM)		Night Time (9:00 PM - 6:00 AM)	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	70	75	63	70
2	Near CPP Area	63	75	54	70
3	Near Limestone Storage Yard	59	75	53	70
4	Near Coal Storage Yard	61	75	56	70
5	Near Raw Mill	71	75	64	70
6	Near Cement Mill	69	75	62	70
7	Near Cement Plant CCR Building	58	75	53	70
8	Near CPP TG Building	70	75	64	70


Analysed By


Verified By

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

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



AMBIENT AIR QUALITY MONITORING RESULTS July - 2020

Stations Name	Parameters Results			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
	Limit 100 µg/m ³	Limit 60 µg/m ³	Limit 80 µg/m ³	Limit 80 µg/m ³
Near CPP Water Reservoir	52.4	23.8	7.8	18.2
Near Guest House Yamuna Sadan	38.8	16.4	6.2	15.8
Near CCR Material Yard	48.6	18.4	6.8	17.4
Residential Colony	36.4	15.8	ND	9.8

ND : Not Detected

PROCESS FUGITIVE EMISSION TEST RESULTS July -2020

Locations	Fugitive Emission Results SPM (µg/m ³)	Limits (µg/m ³)
Fly Ash Storage Section	956	5000
Coal Storage Section	478	2000
Lime Storage Section	1624	5000
Cement Packing Section	1620	5000


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298




AMBIENT AIR QUALITY MONITORING RESULTS August - 2020

Stations Name	Parameters Results			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
	Limit 100 µg/m ³	Limit 60 µg/m ³	Limit 80 µg/m ³	Limit 80 µg/m ³
Near CPP Water Reservoir	56.8	27.2	8.4	20.6
Near Guest House Yamuna Sadan	42.6	17.8	7.2	17.4
Near CCR Material Yard	51.2	20.4	7.6	18.2
Residential Colony	40.8	17.6	6.6	12.4

ND : Not Detected

PROCESS FUGITIVE EMISSION TEST RESULTS August -2020

Locations	Fugitive Emission Results SPM (µg/m ³)	Limits (µg/m ³)
Fly Ash Storage Section	1246	5000
Coal Storage Section	986	2000
Lime Storage Section	1842	5000
Cement Packing Section	2018	5000


Analysed By


Verified By

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

GOLDSTONE CEMENTS LIMITED


CIN: U26940ML2007PLC008298



August - 2020

STACK EMISSION MONITORING RESULTS (Monthly Average Values)

S.No.	Stack Attached To	PM (30 mg/Nm3)	SO2 (1000 mg/Nm3)	NOx (600 mg/m)
1	Raw Mill & Kiln	23.1	395.7	321.5
2	Coal Mill	22.5	----	----
3	ESP	25.4	----	----
4	Cement Mill	23.0	----	----
5	CPP	PM (50 mg/Nm3)	SO2 (600 mg/Nm3)	NOx (300 mg/m)
		31.4	355.9	199.7


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED


CIN: U26940ML2007PLC008298




August - 2020

NOISE LEVEL MEASUREMENT RESULTS

S.No.	Locations	Day Time (6:00 AM - 9:00 PM)		Night Time (9:00 PM - 6:00 AM)	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	69	75	63	70
2	Near CPP Area	61	75	55	70
3	Near Limestone Storage Yard	60	75	54	70
4	Near Coal Storage Yard	62	75	53	70
5	Near Raw Mill	70	75	65	70
6	Near Cement Mill	68	75	63	70
7	Near Cement Plant CCR Building	59	75	54	70
8	Near CPP TG Building	70	75	63	70


Analysed By


Verified By

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

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



AMBIENT AIR QUALITY MONITORING RESULTS September - 2020

Stations Name	Parameters Results			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
	Limit 100 µg/m ³	Limit 60 µg/m ³	Limit 80 µg/m ³	Limit 80µg/m ³
Near CPP Water Reservoir	47.6	21.5	9.1	19.5
Near Guest House Yamuna Sadan	39.7	18.4	8.4	18.9
Near CCR Material Yard	50.2	19.7	7.2	17.9
Residential Colony	35.8	16.5	7.8	13.4

ND : Not Detected

PROCESS FUGITIVE EMISSION TEST RESULTS September -2020

Locations	Fugitive Emission Results SPM (µg/m ³)	Limits (µg/m ³)
Fly Ash Storage Section	1347	5000
Coal Storage Section	865	2000
Lime Storage Section	1734	5000
Cement Packing Section	1974	5000


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED

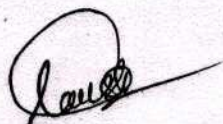
CIN: U26940ML2007PLC008298



September - 2020

STACK EMISSION MONITORING RESULTS (Monthly Average Values)

S.No.	Stack Attached To	PM (30 mg/Nm ³)	SO ₂ (1000 mg/Nm ³)	NO _x (600 mg/m)
1	Raw Mill & Kiln	22.8	417.7	299.6
2	Coal Mill	21.3	----	----
3	ESP	23.2	----	----
4	Cement Mill	22.7	----	----
5	CPP	PM (50 mg/Nm ³)	SO ₂ (600 mg/Nm ³)	NO _x (300 mg/m)
		32.5	301.5	198.4


Analysed By


Verified By

GOLDSTONE CEMENTS LIMITED

CIN: U26940ML2007PLC008298



September - 2020

NOISE LEVEL MEASUREMENT RESULTS

S.No.	Locations	Day Time (6:00 AM - 9:00 PM)		Night Time (9:00 PM - 6:00 AM)	
		Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	70	75	62	70
2	Near CPP Area	64	75	56	70
3	Near Limestone Storage Yard	59	75	52	70
4	Near Coal Storage Yard	60	75	52	70
5	Near Raw Mill	70	75	65	70
6	Near Cement Mill	69	75	63	70
7	Near Cement Plant CCR Building	60	75	58	70
8	Near CPP TG-Building	69	75	65	70


Analysed By


Verified By

Annexure – 2

Construction of Concrete Roads





Annexure –
2a,2b,2c,2d

Water
Sprinkling





SPEED
LIMIT
15





Annexure – 3

PUC Certificates

7/24/2020



Transport Department, Rajasthan

प्रदूषण नियंत्रण प्रमाण पत्र

POLLUTION UNDER CONTROL CERTIFICATE

[Approved by Department of Transport, Government of Rajasthan, Jaipur]

परिवहन विभाग राजस्थान सरकार से मान्यता प्राप्त

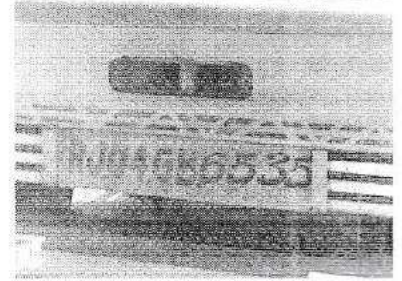
(Rule 115 of CMV Rules 1989)

8140125

Pucc No :	D14RJ04106568
Vehicle No :	RJ04GB6535
Customer Name :	HANUMAN RAM
Customer Mobile :	9799373327
Year of Regn :	09-07-2018
Type of Vehicle :	TRUCK
Make :	Tata Motors
Model :	H G V
Test Date :	24-07-2020
Time :	12:12:42 PM
Valid UpTo :	23-01-2021
Center Name :	Ram Mobile PUC Center
Center Address :	Barmer
Licence No :	RJ04-15/14
Test Result :	Pass

VALID IN ALL INDIA

Photo of Vehicle



Flushing Cycle			
Avg	RPM Min	RPM Max	Temp
	503	5230	1

Sr. No.	RPM Min	RPM Max	Km	HSU%	Temp
1	740	5520	0.146	6.08	1
2	600	5280	0.146	6.08	1
3	640	5390	0.146	6.08	1
Mean			0.146	6.08	

Prescribed Limit for Diesel vehicle	1/m(Light Absorption Co-efficient)	Hartridge Units (HSU)%
Free Acceleration BS II & III	2.45	65
Free Acceleration BS IV	1.62	50
Free Acceleration BS VI 4/3 wheelers	0.7 / 1.5	26 / 48

Validity Six Months for Bharat Stage III or below and one year for Bharat Stage IV/VI vehicles.

Certificate price: ₹ 100

Get Certificate renewed within the expiry date.

Seal of Testing Station	Testing Station Code	Authorised Signatory
	D14RJ04	

CERTIFICATE IS ONLY VALID IF SMS RECEIVED FROM REIL TRANSPORT DEPT. KINDLY DESTROY THE INVALID CERTIFICATE.

Transport Dept. Govt. of Rajasthan

Transport Dept. Govt. of Rajasthan



Veh Reg No : RJ04GB6535
PUC No. : D14RJ04106568
Valid up to : **23-01-2021**
Scan QR Code to Validate



Veh Reg No : RJ04GB6535
PUC No. : D14RJ04106568
Valid up to : **23-01-2021**
Scan QR Code to Validate

POLLUTION UNDER CONTROL CERTIFICATE

Authorised By: Jalpaiguri RTO
Transport Commissionerate, West Bengal



TEST RESULT : PASS
VALID TILL: 30/Jan/2021

DIESEL DRIVEN VEHICLES

Certified that the vehicle conforms to the standards prescribed under rule 115(2) of CMV Rules 1989

Certificate Sl. No.: WB07100620000936
Registration No.: **AS16AC0658**
Chassis No.: MB1KACHD9HPJA9997
Engine No.: HJPZ145386
Class of Vehicle: Goods Carrier
Make: ASHOK LEYLAND LTD
Model: V4553511
Vehicle Category: HEAVY GOODS
VEHICLE
Date of Registration: 12/Jan/2018
Emission Norms: BHARAT STAGE IV
Fuel: DIESEL
Date of Testing: 31/Jan/2020

FUEL	Light Absorption Coefficient (Permissible Limit)	Measured Value
DIESEL	1.62	0.579

Time of Testing: 13:18:09
Fee Charged: Rs.100.0
In case of any complain Please write to Transport
Commissioner, West Bengal / email to:
transportdeptt.wb@gmail.com / Call us:033 2262 5404

Auto Emission Testing Centre Code:
WB0710062
Testing Centre Name: SAHA
COMPUTERISED POLLUTION TESTING
CENTRE
Centre Address: NJP GATE BAZAR
SILIGURI
Test Conducted By: SUPRABHAT SAHA



TEST RESULT FOR DIESEL VEHICLE

	IDLE RPM	MAX RPM	K VALUE	OIL TEMP
TEST 1	580.0	3690.0	0.579	27.0
TEST 2	580.0	3820.0	0.579	27.0
TEST 3	730.0	3820.0	0.579	27.0
AVG	630.0	3776.66667	0.579	27.0

This is a computer generated certificate and does not require signature

POLLUTION UNDER CONTROL CERTIFICATE

Authorised By:
Transport Department Uttar Pradesh



TEST RESULT : PASS
VALID TILL: 24/Jul/2021

DIESEL DRIVEN VEHICLES

Certified that the vehicle conforms to the standards prescribed under rule 115(2) of CMV Rules 1989



Certificate Sl. No.: UP06700010002729
Registration No.: **BR02GB1389**
Owner Name: SHAKIL AHMAD
Chassis No.: MAT541068J1F18707
Engine No.: ISBE5.91804081F63701449
Class of Vehicle: Goods Carrier
Make: TATA MOTORS LTD
Model: 50393968000R
Vehicle Category: HEAVY GOODS VEHICLE
Date of Registration: 24/Aug/2018
Emission Norms: BHARAT STAGE IV
Fuel: DIESEL
Date of Testing: 25/Jul/2020
PUC Equipment Manufacturer Name: Utkal Electronic
PUC Equipment Manufacturer Model: SSS-15
PUC Equipment Name: SSS-15
PUC Equipment Serial No.: 241

FUEL	Light Absorption Coefficient (Permissible Limit)	Measured Value
DIESEL	1.62	1.11

Testing Centre Code:

Annexure – 4

Water Reservoir

GOLDSTONE CEMENTS LIMITED
MEGHALAYA
STREAM
WATER RESERVOIR
CAPACITY- 1.0 Lac Litters





Annexure – 5

Greenbelt Development

Annexure – 5
Pollution
Control
Expenses

**Goldstone Cements Ltd.
Musiang Lamare (Old)**

Investment Sheet of Pollution Equipments

SI.No	Location	Particulars	Supplier	Equipment	Mechanical	Civil	Electrical & Instrument	Transportation (Equipment, steel, Electricals, miscellaneous)	Total	Installed Date
1	Primary Crusher & Secondary crusher	Bag Filters	Himen viro	4396200	40000000	52500000	21000000	10000000		2016
2	Raw Mill	Raw Mill Bag House	Thermax	60683388						2016
3	Cooler	Clinker Cooler ESP								2016
4	All material transfer points	De dusting Bag Filters								2016
5	CPP	ESP	Rieco						2016	
6	Cement Mill	Cement Mill Bag House	Rieco	13878650						2016
7	Coal Mill	Coal Mill bag house	Thermax							2016
8	Packing House	Packing House Bag house	Flsmidth	3982307						2016
9	Packing plant	Bag Filter + Fans	Thyssenkrupp	2294403						2016
10	Raw Mill Bag House Cemet Mill bag house Clinker cooler	Fans for : (i) Raw Mill Bag House (ii) Cement Mill Bag House (iii) Clinker cooler ESP	airochem Flaktindia Solyvent-Flakt	5131605						2016
11		Missellaneous + Others	Flexocon/L&T	2280695						2016
12	All Stacks	SOX/NOX analyser and opacity meters etc	Forbes Marshall	3348688						2017
13	Coal Mill	DATA NORAMALISATION, DATA CONTROLLER, TEMPERATURE SENSOR, PRESSURE AND FLOW METER	NEVCO ENGINEERS PVT LTD.	500497						2019
14	PLant	STACK MONITORING KIT	Envirotech	124490						2019
15	Plant	Burial Pit & Sharp Pit		98999.95						2020
16	PLant	Hazardous waste storage Shed		230642.05						2019
17	Plant	LED DISPLAY BOARD	ADDSOFT	377600						2020
18	PLant	AMBIENT AIR Quality MONITORING SET	Envirotech	362175.00						2020
19		Commissioning/Supervision		4000000					4000000	52598999.95
		Total		101690340	(APPROX)	(APPROX)	(APPROX)	(APPROX)	(APPROX)	

A TOTAL INVESTMENT IN POLLUTION CONTROL EQUIPMENT - **101690340**

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

123599000

TOTAL A+B 225289340

Goldstone Cements Limited, Meghalaya.
Recurring Pollution Control Expenditure for 2020-21

Upto Date: 30.09.2020

SI No	Date	Particulars	Purchase Order/Invoice Number	Quantity	Amount
1	02.09.2020	Procurement of Emission Monitoring Equipments accessories (SoX Nox Anayser)	551503524	2 sets	254880.00
2	30.09.2020	ELECTRICITY EXPENSES FOR RUNNING THE POLLUTION CONTROL EQUIPMENTS in Cement Unit			12475788.00
3	30.09.2020	Dust Seppression through Water Tanker			75000.00
4	12.06.2020	Glens Data Transmission AMC	GL/20-21/06/66		58410.00
5	24.08.2020	Glens Software for LED display board realtime data display	PGMS/00233/20-21P		23600.00
6	30.09.2020	Salaries & Wages for Environmental activities			1270000.00
7	26.06.2020	AMBIENT AIR Quality MONITORING SET (APM 460 NL, APM 433, APM 550 MFC)	2020-21/EI/65		362175.00
8	12.08.2020	Mass Plantation	86	5000	53900.00
9	30.09.2020	ETP Maintainanance Expences			25000.00
10	30.09.2020	Workmen engaged for plantation			108414.00
11	16.04.2020	Coal mill baghouse(149*4265)	22	25	24755.00
12	21.04.2020	Coal mill baghouse(149*4265)	22	24	23764.00
13	21.09.2020	Coal mill baghouse(149*4265)	22	25	24755.00
14	23.04.2020	CSP top (149*3665)	63	150	47250.00
15	03.04.2020	CPP-New coal shed project work(For storage of open area stock coal)	MEG/CAP/CIVIL/CSY/0002/19-20		13396427.00
16	22.08.2020	CPP Chemical shed project work (For storage of chemicals)			150000.00
17	04.05.2020	CPP- Esp internal rapping hammer replacement (spare)			3480.00
18	04.05.2020	CPP - Esp internal Rapping bar/shaft replacement(spare)			7600.00
19	05.05.2020	CPP- Esp shock bar repair			1600.00
20		Total manpower engaged for ESP repairing work with consumables			16850.00
21	30.09.2020	Electrical power consumption for ESP & AHP			13000.00
		Toal			28416648.00

Annexure – 7

Environmental Parameters Display

ENVIRONMENTAL DATA INFORMATION RELATED TO AIR, WATER AND HW GENERATION



- Name of the Industry/facility with contact details : **GOLDSTONE CEMENTS LIMITED, Vill.-Musiang Lamare (Old) Khliehriat, East Jaintia Hills, Meghalaya-793210**
(as per the Consent to Establish/Operate) **Mr. Vishal Jain, (MD) 0361-2607071/72**
- Date of update of display : **21 SEPT. 2020**
- Consent to Operate and Authorization : **No. MPCB/CON-13-2011/Pt-I/2020-2021/88, Validity-30.06.2021**
- Hazardous waste Authorization : **No. MPCB/ATH-45-2017/Pt-I/2018-2019/3, Validity-31.07.2023**
- Operational status : **Operational ✓ / Non-Operational**
- Production Details :

S.No.	Product Manufactured (including Recycling /Utilization)	Used Hazardous Chemicals with quantity and purpose	Type of HW generated (MT/KL) with category as per HW Rules-2016 Year - (2019-2020)	QTY.of HW generated storage (MT/ KL)	QTY.of HW Disposed/Utilized inhouse (MT/KL)	Mode of treatment and disposal (Co-processing, /Utilizing/reuse/incinator etc.)					
1	Cement, Clinker & Power	NA	Used Oil	1.944 KL	Fly Ash	—	2.314	—	0.518	—	Co-processing incinator Utilizing
2			Turbine Oil	0.18 KL	Bed Ash	—	4.124	—	—	—	
3			Gear Oil	3.247 KL	Chemical Container	6 nos	5.205	22 nos	1.15	27 nos	
4											

7. Air Emission :

S.No.	Source of Air Pollution	Air Pollution Control System (APCS)		Parameters Monitored w.e.t. Air Pollution			Limits/Standard prescribed by SPCBs/CPCB (mg/Nm ³)
			Stack Height (in meter)	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)	
1	Raw Mill & KILN	Baghouse	40.0	18.8	418.4	263.8	PM-30, SO ₂ -1000 NO _x -600
2	Coal Mill	Baghouse	58.1	17.7	
3	Cooler ESP	ESP	45.0	22.7	
4	Cement Mill	Baghouse	42.0	15.2	
5	CPP	ESP	76.1	22.8	467.7	249.9	PM-50, SO ₂ -600, NO _x -300

*OCEMS Connectivity details (Date of installation: 14/09/2017 and Operational Status: Operational ✓ / Non-Operational)

8. Effluent Discharge :

S.No.	Source of Effluent discharge with Qty.	Treatment method	Mode of Disposal of treatment (Drain/sewer/land etc)	Effluents discharge monitoring parameters							
				pH	TSS	BOD	COD	N	TKN	NH ₃	
1	Domestic effluent	20 M ³ /day EPT	Dust suppression & gardening	Out let (mg/l)	6.8	10.4	17	65	3.9	10.8	<0.01
2	DM Plant N Pit	36 m ³ /day	Dust suppression & gardening	Out let (mg/l)	PH	TSS	RFC	Temp.	O&G	Cu	Iron
					6.6	16.2	<0.01	25.4	<0.1	<0.01	<0.01

*OCEMS Connectivity details (Date of installation and operational status): NA

AAQ-1
NEAR CPP WATER Reservoir



Parameters	Results	NAAQMS <small>(µg/m³)</small>
PM-10	52.3	100
PM-2.5	23.4	60
SO₂	9.4	80
NO₂	16.4	80