

No: GSCL/EHS/2020-21/05

Dated: 09.06.2020

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 01.04.2019 to 30.09.2019 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 Coments Ltd

Encl: As mentioned abo

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

SL.	COMPLIANCE REPORT (HALF YEARLY) from 1st APRIL 2019 to 30th SEPTEMBER 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 CLEARENCE VIDE MOEF LETTER NO. J-11011/851/2008-IA II (I), DATED 30.09.2010.						
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	•The Continuous Stack Monitor (Opacity Meters) is in working condition and online data is being transferred to CPCB & MSPCB.					
	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.	•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 Shiller within 22 months for	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.					
	ministry and its Regional office at Shillong within 03 months from the date of issue of the letter.	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.					
		We have also explored the Cement plants in the near vicinity and none of them have installed Waste Heat Recovery Plant.					
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					
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.	parameters. (Details attached in Annexure-1) All material transfer points are provided with Bag filters to control fugitive emission.					
	practice issued by the CrCB in this regard should be followed.	Construction of concrete roads is under progress in the plant.					
		Water sprinklers installed in limestone crusher and coal area and plant roads.					
		(Photographs are enclosed in Annexure: 2a, 2b, 2c) Full time water tanker has been deployed in the plant as shown in Annexure: 2d					
a		Guideline / Code of practice issued by the CPCB is being followed during operation of plant. Regular monitoring for control of secondary fugitive emission under prescribed limit is being done. (Details attached in Annexure-1)					



v	Effort shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and shall not be over loaded. The company shall have separate truck parking area. Vehicular emissions should be regularly monitored.	Raw Material and end products are transported keeping in consideration that surrounding environment and agriculture land is protected. There is separate designated parking space for truck parking. It is ensured that without valid PUC no vehicle is allowed in plant premises. Few certificates enclosed for your reference. (Details attached in Annexure-3)
vi	Total water requirement for cement and captive power plant shall not exceed 2,370 m ³ / day. All the treated wastewater shall be recycled and reused in the process and / or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'Zero' discharge should be adopted.	Total water requirement 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. (Photographs are enclosedAnnexure:4&4a)
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 is being Monitored. (Reports are enclosed in Annexure:5) 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.
х	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).	The state of the s
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.	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 planation of around 2500 saplings was made on 9 th Sept 2019. 30% area is already under greenbelt.
		Balance and required plantation shall be done in phase manner. (Greenbelt development Drawing is enclosed in Annexure: 6)
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.	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 well's	
	No further expansion or modifications in the plant shall be carried	There will be no expansion or modifications beyond permissions already granted
	out without prior approval of the Ministry of Environment and Forests.	without prior approval of MoEF.
iii	The gaseous emissions from various process units shall confirm to	
111	the load / mass based standards notified by this Ministry on 19th	with the new standards of
	May, 1993 and standards prescribed from time to time. The State	standards
	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.	
١	At least four ambient air quality monitoring stations should be	At present, monthly monitoring of ambient air quality is being carried out with the
iv	established in the downward direction as well as where maximum	help of recognized laboratory. Online emission monitoring system is installed in all
	ground level concentration of PM10, SO ₂ and NO _x are anticipated in	the major stacks. Data on ambient air quality and stack emission are submitted to
1	consultation with the SPCB. Data on ambient air quality and stack	MOFF&CC CPCR and MSDCD once in six months
1	emission shall be regularly submitted to this Ministry including its	(Details are attached as per Annexure-1)
-	Regional office at Shillong and the SPCB/CPCB once in six months	F 22
	Industrial waste water shall be properly collected, treated so as to	
v	confirm to the standards prescribed under GSR 422 (F) dated 10th	Treated wastewater from DM plant is used entirely in dust suppression measures
	May, 1993 and 31st December 1993 or as amended from time to	Process water requires for cooling of bearing in the cement plant are cooled treated
	time. The treated waste water shall be utilized for plantation	and recycled fully.
-	purpose.	
	The overall noise levels in and around the plant area shall be kept	
vi	well within the standards (85 dBA) by providing noise control	Care has been taken during project planning and ordering of equipment. Noise level
1	measures including acoustic hoods, silencers, enclosures etc. on all	is monitored and being found within the prescribed limit.
	sources of noise generation. The ambient noise levels shall conform	* ************************************
	to the standards prescribed under EPA Rules, 1989 viz. 75 dBA	(Details are attached as per Annexure-1)
-	(daytime) and 70 dBA (nighttime).	
١	Occupational health surveillance of the workers should be done on a	Occupational health surveillance to our workers has been done as per factory act
vii	regular basis and records maintained as per the Factories Act.	and lew reports are enclosed. (Details are attached as per Apperure 7)
		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.
	The company shall develop surface water harvesting structures to	We have constructed a reservoir of 1 lac liters capacity in the west side; however
viii	harvest the rain water for utilization in the lean season besides	14 lac liters capacity reservoir construction is under progress.
	recharging the ground water table.	(Photographs are enclosed in Annexure: 4&4a)

		United the PLATENCE
	The project proponent shall also comply with all the environmental	We are working on the implementation of the conditions given in EIA/EMP.
ix	protection measures and safeguards recommended in the EIA/EMP	
	report. Further, the company must undertake socio-economic	We are sponsoring for community development programmes. We are providing the
	development activities in the surrounding villages like community	drinking water facility in nearby village.
	development programmes, educational programmes, drinking water	the second secon
	supply and health care etc.	We are providing free medicines, free ambulance services to local community.
	As proposed, Rs 25 Crores and Rs 1.80 Crores shall be earmarked	Exhaustive environmental protection measures have been taken by installing
	towards capital cost and recurring cost/annum for environment	following equipments apprx 22.41 Cr as capital cost.
X	pollution control measures to implement the conditions stipulated by	ESP and bag houses are installed.
	the Ministry of environment & Forests as well as the state	Material transfer points bag filters installed to control fugitive dust
	government. An implementing all the conditions stipulated herein	Sox & NOx analyzer and opacity meters have been installed to monitor the
	shall be submitted to the Regional office of the Ministry at Shillong	emission and data transmission to CPCB server.
	.The Funds so provided shall not be diverted for any other purpose	We have invested approx Rs. 2.01 Cr amount towards recurring cost for
		environment pollution control measures.
		(Details are enclosed in annexure: 8)
	A copy of clearance letter shall be sent by the proponent to	
	concerned Panchayat, Zila Parishad / Municipal Corporation, Urban	Has been implemented.
Xi	Local Body and the local NGO, if any, from whom suggestions /	Copy was already submitted to the MOEF &CC.
	representations, if any, were received while processing the proposal.	4
	The clearance letter shall also be put on the website of the company	
	by the proponent.	
	The project proponent shall upload the status of compliance of the	
	stipulated environment clearance conditions, including results of	
xii		Environmental Parameters display board has been installed near company main
	periodically. It shall simultaneously be sent to the Regional Office	gate. (Photograph is enclosed in annexure-9)
	of the MOEF at Shillong. The respective Zonal office of CPCB and	
	the SPCB. The criteria pollutant levels namely; PM 10, SO ₂ , NOx	The EC and six monthly EC compliance reports are shown in our company website
	(ambient levels as well as stack emissions) or critical sectoral	http://gscl.blacktigerso.com/
	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.	
	The project proponent shall also submit six monthly reports on the	Being submitted
	status of the compliance of the stipulated environmental conditions	
xiii	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.	

	The environmental statement for each financial year ending 31st	
xiv	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	, and the second
	the MOEF at Shillong by e-mail.	
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.	b
xvi	Project authorities shall inform the Regional Office as well as the	Followed the norms and land development work completed accordingly.
	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.	

For Goldstone cements Ltd.



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Report No. : ENV/GSCL/DW/APR/19-20/01

: 10/05/2019

Date

Order No. : SOML/00013/19-20

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

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

Meghalaya-793200

DRINKING WATER ANALYSIS RESULTS

Sample Type : Drinking Water

Sample Source

: Canteen

SI. 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	0.21	1.0
5.	рН	6.8	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 CI), mg/l, Max	2.8	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	0.022	0.3
15.	Magnesium (as Mg), mg/l, Max	2.5	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	91	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
.9.	Total Chromium, (as Cr), mg/l, Max	ND	0.05
10.	Anionic Detergents (as MBAS), mg/l	ND	0.2
1.	Total Coliform, MPN/100 ml	NIL	10 Max
2.	Faecal Coliforms/ 100 ml	NIL	Absent
3.	E. Coli / 100 ml	NIL	Absent

Analysis Protocol IS 30

NOTE:

Digbol Assam ND: Not Detected

Checked By: Mr. Pankaj Barol, ENVIROCON 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.

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Report No.: ENV/GSCL/AAQ/APR/19-20/01

Date : 10/05/2019 Order No.: SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .:- Khliehriat Meghalaya-793200

AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s)	Date of	PM 2.5 (μg/m³)	PM 10 (μg/m³)	NO 2 (μg/m³)	SO ₂ (μg/m³)
	Limit(s)	Sampling	60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	Near CPP	29.04.2019		64.5	3.4	4.7
٠.		30.04.2019	34.6		:==x	
2.	Near Secondary Crusher	29.04.2019		66.8	6.9	BDL
		30.04.2019	27.5			(##) .
3.	Near Fly Ash Shed	29.04.2019		62.2	6.7	BDL
5.		30.04.2019	36.3			
4.	Near Temple	29.04.2019	**	54.4	6.5	BDL
••		30.04.2019	22.9			

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/NLM/APR/19-20/01

Date

10/05/2019

Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khlishriat Meghalaya: 793200

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 30,04,2019

	Location(s)	Day	Day time		Time
SI. No.		Result(s) (dB - A)	Limit(s) (dB · A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	73	75	68	70
2 ·	Near CPP Area	72	75	65	70
3	Near Limestone Storage Yard	67	75	62	70
4	Near Coal Storage Yard	64	75	59	70
5	Near Raw Mill	73	75	60	70
6	Near Cement Mill	69	75	64	70
7	Near Administrative Building	57	75	50	70
8	Power House	74	75	68	70



Checked By: Mr. Pankaj Barol, ENVIROCON

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Date : 10/05/2019 Order No.: SOML/00013/19-20

: 13/04/2019 Date

GOLDSTONE CEMENTS LIMITED

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

Meghalaya-793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM (μg/m³)	Limits (μg/m³)
29.04.2019 Fly-ash Storage Section		2677	5000
29.04.2019	Coal Storage Section	974	2000
30.04.2019	Limestone Storage Section	1847	5000
30.04.2019	Cement Packing Section	2369	5000

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Date : 10/05/2019 Order No.: SOML/00013/19-20

: 13/04/2019 Date

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .:- Khliehriat Meghalaya-793200

ETP WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client

Collected On: 30.04.2019

SI. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	рН	-	6.9	5.5 - 9.0
02	Temperature .	°C	24.6	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	18	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	16	30
05	Chemical Oxygen Demand	mg/l	39	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	11.6	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	35.8	100
01	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

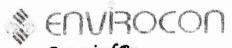
Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Recognised By PCB, Assam & MSPCB, Meghalaya

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Report No.: ENV/GSCL/AAQ/MAY/19-20/01

: 03/06/2019 Date

Order No.: SOML/00013/19-20

: 13/04/2019 Date

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .: Khliehriat Meghalaya-793200

AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s)	Date of	PM 2.5 (μg/m³)	PM 10 (μg/m³)	NO ₂ (μg/m³)	SO₂ (μg/m³)
	Limit(s)	Sampling	60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
	Near CPP	22.05.2019		48.2	9.4	4.2
1.		23.05.2019	18.9	••		
	Near Secondary Crusher	22.05.2019	••	41.6	BDL	BDL
2.		23.05.2019	21.4	••		
	Near Fly Ash Shed	22.05.2019		37.6	BDL	BDL
3.		23.05.2019	16.8	••		
	Near Temple	22.05.2019		33.4	BDI.	BDL
4.		23.05.2019	14.7	••	••	

BDL: Below Detection Level Analysis Protocol: IS 5182

Sampled & Analysed by: ENVIROCON, Digboi



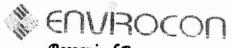
Checked By: Mr. Bivash Mahanta, ENVIROCON

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

Report No.: ENV/GSCL/FE/MAY/19-20/01

Date

:03/06/2019

Order No. : SOML/00013/19-20

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

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

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM (µg/m³)	Limits (µg/m³)
22.05.2019	Fly-ash Storage Section	2123	5000
22.05.2019	Coal Storage Section	826	2000
23.05.2019	Limestone Storage Section	1637	5000
23.05.2019	Gement Packing Section	2164	5000

Sampled & Analysed by: ENVIROCON, Digboi

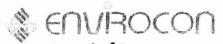


Checked By: Mr. Bivash Mahanta, ENVIROCON

NOTE

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Report No.: ENV/GSCL/NLM/MAY/19-20/01

:03/06/2019 Date

Order No. : SOML/00013/19-20

: 13/04/2019 Date

GOLDSTONE CEMENTS LIMITED

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

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 22.05.2019

		Day time		Night	Time
SI. No.	Location(s)	Result(s) (dB · A)	Limit(s) (dB · A)	Result(s) (dB • A)	Limit(s) (dB · A)
1	Near Coal Mill	74	75	68	70
2	Near CPP Area	73	75	67	70
3	Near Limestone Storage Yard	ĜĜ	75	59	70
4	Near Coal Storage Yard	65	75	56	70
5 .	Near Raw Mill	74	. 75	65	70
6	Near Cement Mill	68	75	62	70
7	Near Administrative Building	61	75	53	70
8	Power House	74	75	69	70



Checked By: Mr. Bivash Mahanta, ENVIROCON

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Report No.: ENV/GSCL/ETP/MAY/19-20/01

:03/06/2019 Date

Order No. : SOML/00013/19-20

: 13/04/2019 Date

GOLDSTONE CEMENTS LIMITED

Sample Source : ETP Outlet

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

Meghalaya-793200

ETP WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water

Collected By: Jointly by Envirocon & Client

Collected On: 23.05.2019

SI. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH		6.7	5.5 - 9.0
02	Temperature	•с	21.3	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	23	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	21	30
05	Chemical Oxygen Demand	mg/l	72	250
06	Oil & Grease	mg/l	0.6	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	13.8	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	36.5	100
01	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025

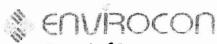


Checked By: Mr. Bivash Mahanta, ENVIROCON

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Date

Report No. : ENV/GSCL/DW/APR/19-20/01

:03/06/2019

: SOML/00013/19-20 Order No.

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .:- Khliehriat Meghalaya- 793200

DRINKING WATER ANALYSIS RESULTS

Sample Type : Drinking Water	Sample Source	: Canteen : 23.05.2019
- w - In tale by Fardroom & Client	Collected VII	

SI. No.	: Jointly by Envirocon & Client Parameters	Results	Desirable Limit (IS: 10500)
		<1	5
·1.	Colour , Hazen Units, Max	Odourless	Agreeable
2.	Odour	Acceptable	Agreeable
3.	Taste	0.17	1.0
4.	Turbidity, NTU, Max	7.1	6.5 - 8.5
5.	рН		500
6.	Total Dissolved Solids, mg/l, Max	86.2 ND	0.03
7.	Aluminium (as Al), mg/l, Max	ND	0.5
8.	Boron (as B), mg/l, Max	ND	75
9.	Calcium (as Ca), mg/l, Max	22	250
10.	Chloride (as Cl), mg/l, Max	3.1	0.05
11.	Copper (as Cu), mg/l, Max	ND	1.0
12.	Fluorides (as F), mg/l, Max	ND	0.2
13.	Free Residual Chlorine, mg/l, Min	ND	0.3
14.	Iron (as Fe), mg/l, Max	0.016	30
15.	Magnesium (as Mg), mg/l, Max	2.1	0.1
16.	Manganese (as Mn), mg/l, Max	ND	5.0
17.	Zinc (as Zn), mg/l, Max	ND	
18.	Nitrate (as NO ₃), mg/l, Max	<0.01	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	34	200
22.	Total Hardness, (as CaCO ₁), mg/l, Max	18	200
23.	Cadmium (as Cd), mg/l, Max	ND	0.003
24.	Gyanide (as GN), 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
	Anionic Detergents (as MBAS), mg/l	ND	0.2
30.	Total Coliform, MPN/100 ml	NIL	10 Max
31.	Faecal Coliforms/ 100 ml	NIL	Absent
32. 33.	E. Coli / 100 ml	NIL	Absent

Analysis Protoco

ND: Not Detected

Checked By

Bivash Mahanta

nd under the prevailing conditions of measurement.

NOTE:

ameters tested.

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Order No. : SOML/00013/19-20

Date

: 13/04/2019

Report No. : ENV/GSCL/DW/JUN/19-20/01

Date : 11/07/2019

GOLDSTONE CEMENTS LIMITED Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya-793200

DRINKING WATER ANALYSIS RESULTS

Sample Type : Drinking Water Collected By : Jointly by Enviro

Sample Source

: Canteen

SI. No.	Parameters	Results	Desirable Limit (IS: 10500)
1.	Colour, Hazen Units, Max	<1	5
2.	Odour	Odourless	Agreeable
3.	Tasto	Acceptable	Agreeable
4.	Turbidity, NTU, Max	0.09	1.0
5.	pH	7.1	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	82.4	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	19	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	<0.01	0.3
15.	Magnesium (as Mg), mg/l, Max	2.2	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	<0.01	45
19.	Phenolic Compounds (as C6H5OH), mg/l, Max	ND	0.001
20,	Sulfate (as SO ₄), mg/l, Max	14	200
21.	Total Alkalinity(as CaCO ₃), mg/l, Max	39	200
22.	Total Hardness, (as CaCO ₃), mg/l, Max	14	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	
30.	Anionic Detergents (as MBAS), mg/l	ND	0.05
31.	Total Collform, MPN/100 ml	NIL	0.2
32.	Faecal Coliforms/ 100 ml	NIL	10 Max
33.	E. Coli / 100 ml	NIL	Absent Absent

Analysis Protocol: 15 302

ND: Not Detected

Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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Digboi Assam

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Report No.: ENV/GSCL/AAQ/JUN/19-20/01

Date : 11/07/2019 Order No. : SOML/00013/19-20

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .: - Khliehriat Meghalaya-793200

AMBIENT AIR QUALITY TEST RESULTS

SL.	Location(s) ♥	Date of	PM 2.5 (μg/m³)	PM 10 (μg/m³)	NO ₂ (μg/m³)	SO₂ (μg/m³)
No. Limit(s)	Sampling	60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)	
1.	Near CPP	28.06.2019		43.7	5.2	BDL
	rical GIT	29.06.2019	16.2			
2.	Near Secondary Crusher	28.06.2019	••	38.2	BDL	BDL
	rear occontaily crusher	29.06.2019	14.7			y
3.	Near Fly Ash Shed	28.06.2019		34.5	BDL	BDL
J	real Try Ash Shed	29.06.2019	13.9	_		
4.	Near Temple	28.06.2019		30.8	BDL	BDL
	Temple	29.06.2019	12.6			

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/NLM/JUN/19-20/01

Date

:11/07/2019

Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 28.06.2019

Sl. No.	Location(s)	Day	Day time		Night Time	
	(5)	Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)	
1	Near Coal Mill	73	75	67	70	
2	Near CPP Area	71	75	65	70	
3	Near Limestone Storage Yard	67	75	57	70	
4	Near Coal Storage Yard	64	75	57	70	
5	Near Raw Mill	72	75	62	70	
6	Near Cement Mill	72	75	60	70	
7	Near Administrative Building	63	75	56	70	
8	Power House	73	75	66	70	



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Report No.: ENV/GSCL/FE/JUN/19-20/01

: 11/07/2019

Order No.: SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

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

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM (µg/m³)	Limits (µg/m³)
28.06.2019	Fly-ash Storage Section	2072	5000
28.06.2019	Coal Storage Section	792	2000
29.06.2019	Limestone Storage Section	1468	5000
29.06.2019	Cement Packing Section	1892	5000

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/ETP/JUN/19-20/01

Date : 11/07/2019

Order No. : SOML/00013/19-20

Date : 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

ETP WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water Sample Source : ETP Outlet Collected By: Jointly by Envirocon & Client

Collected On: 29.06.2019

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH		6.6	5.5 – 9.0
02	Temperature	°C	24.7	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	18.7	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	23	30
05	Chemical Oxygen Demand	mg/l	84	250
06	Oil & Grease	mg/l	0.4	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	9.6	50
09	Total Kjeldahl Nitrogen (as NH3)	mg/l	24.8	100
10	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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Report No.: ENV/GSCL/SW/JUN/19-20/01

Date

: 11/07/2019

Order No. : Nil

Date : Nil

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Type : Surface Water

Sample Source : Plant Nala Downstream

Collected By : Jointly by Envirocon & Client

Collected On : 23.06.2019

Sl. No.	Parameter(s)	Result(s)	Unit(s)
1.	pH	6.8	
2.	Temperature	21.8	°C
3.	Biochemical Oxygen Demand (3 days at 27°C)	4	mg/L
4,	Chemical Oxygen Demand	15	mg/L
5.	Oil & Grease	<0.1	mg/L
6.	Total Dissolved Solids	95.3	mg/L
7.	Total Suspended Solids	. 64	mg/L
8.	Chloride	7.1	mg/L
9.	Total Residual Chlorine	ND	mg/L
10.	Ammonical Nitrogen (as N)	1.6	
11.	Free Ammonia (as NH ₃)	<0.01	mg/L
12.	Total Kjeldahl Nitrogen (as N)	8,2	mg/L
13.	Sulphate	25	mg/L
14.	Iron (as Fe)	0.06	mg/L
15.	Copper (as Cu)	0.06	mg/L
16.	Zinc (as Zn)	ND ND	mg/L
17.	Nickel (as Ni)	ND ND	mg/L
18.	Fluoride (as F)		mg/L
19.	E Coli	<0.01	mg/L
	2 5011	Absent	MNP/100 m

Analysis Protocol: IS 3025

ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/SW/JUN/19-20/02

Date

: 11/07/2019

Order No. : Nil

Date : Nil

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Type : Surface Water

Sample Source : Plant Nala upstream

Collected By : Jointly by Envirocon & Client

Collected On : 23.06.2019

Sl. No.	Parameter(s)	Result(s)	Unit(s)
1.	pH	6.8	
2.	Temperature	21.8	°C
3.	Biochemical Oxygen Demand (3 days at 27°C)	4	mg/L
4.	Chemical Oxygen Demand	16	-
5.	Oil & Grease	<0.1	mg/L
6.	Total Dissolved Solids	96.8	mg/L
7.	Total Suspended Solids	66	mg/L
8.	Chloride	7.3	mg/L
9.	Total Residual Chlorine	ND	mg/L
10.	Ammonical Nitrogen (as N)	1.8	mg/L
11.	Free Ammonia (as NH ₃)	<0.01	mg/L
12.	Total Kjeldahl Nitrogen (as N)		mg/L
13.	Sulphate	8.4	mg/L
14.	Iron (as Fe)	27	mg/L
15.	Copper (as Cu)	0.08	mg/L
16.	Zinc (as Zn)	0.07	mg/L
17.	Nickel (as Ni)	ND	mg/L
18.	Fluoride (as F)	ND	mg/L
19.	E Coli	<0.01	mg/L
	1 2 3011	Absent	MNP/100 m

Analysis Protocol: IS 3025

ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Date



Order No. : SOML/00013/19-20

: 13/04/2019

Report No. : ENV/GSCL/AAQ/JUL/19-20/01

Date : 10/08/2019

GOLDSTONE CEMENTS LIMITED

Village: Musiang Lamare (Old); PO: Khliehriat

Meghalaya-793200

AMBIENT AIR QUALITY TEST RESULTS

OCATIONS	Date of Sampling	PM 2.5	PM 10	NO ₂	SO ₂	NH3							
	- Impining	(μg/m³)	(μg/m³)	(µg/m³)	(μg/m³)	(μg/m³)	CO (mg/m³)	Ο ₃ (μg/m³)	B(a)P (ng/m³)	C ₆ H ₆	Ni	As	Pb
LIMITS -		60	100	80	20				(-6/)	(μg/m³)	(ng/m³)	/m ³) (ng/m ³)	$(\mu g/m^3)$
	-	(24 hrs. Average)	(24 hrs. Average)	(24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr.	1.0 (Annual	5.0 (Annual	20 (Annual	6.0 (Annual	1.0
Near CPP	08.07.2019	21.9	47.6	10.4			Tiverage	Average)	Average)	Average)	Average)	Average)	(24 hrs Average
Near Secondary			17.0	10.4	7.2	12.8	0.032	4.3	<0.1	<0.01			
Crusher	08.07.2019	23.4	49.2	12.7	8.1	11.2				₹0.01	<0.01	<0.01	<0.01
Near Fly Ash Shed	09.07.2019	24.8	F0 -		0.1	11.2	0.022	3.7	<0.1	<0.01	<0.01	<0.01	
	(3,00) (4,00)	24.0	52.7	9.6	6.9	11.6	0.018	4.5	0.4	2		₹0.01	<0.01
Near Temple	09.07.2019	16.2	39.2	ND	ND	7.0		7.3	<0.1	<0.01	<0.01	<0.01	<0.01
alysis Protocol: IS 5					110	7.2	<0.01	1.8	<0.1	<0.01	<0.01	<0.01	<0.01



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/GSCL/DW/JUL/19-20/01 : 10/08/2019

Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.: Khliehriat Meghalaya-793200

DRINKING WATER ANALYSIS RESULTS

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

SI. 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	0.081	1.0
5.	рН	6.9	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	84.9	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 CI), mg/l, Max	2.1	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	<0.01	0.3
15.	Magnesium (as Mg), mg/l, Max	2.6	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	<0.01	45
19.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20.	Sulfate (as SO ₄), mg/l, Max	16	200
21.	Total Alkalinity(as CaCO ₃), mg/l, Max	41	200
2.	Total Hardness, (as CaCO ₃), mg/l, Max	12.6	200
3.	Cadmium (as Cd), mg/l, Max	ND	
4.	Cyanide (as CN), mg/l, Max	ND	0.003
5.	Lead (as Pb), mg/l, Max	ND	0.05
6.	Mercury (as Hg), mg/l, Max	ND	0.01
7.	Selenium (as Se), mg/l, Max	ND	0.001
	Total Arsenic (as As), mg/l, Max	ND	0.01
	Total Chromium, (as Cr), mg/l, Max	ND	0.01
	Anionic Detergents (as MBAS), mg/l	ND	0.05
	Total Coliform, MPN/100 ml		0.2
	Faecal Coliforms/ 100 ml	NIL	10 Max
	, 200	NIL	Absent

Analysis Protocol Digboi Assam

ND: Not Detected

NOTE:

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

Assam

2. Results refer only to the particular parameters tested.

Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/GSCL/ETP/JUL/19-20/01

Date

: 10/08/2019

Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

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

ETP WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water

Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client

Collected On: 29.07.2019

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	рН		6.8	5.5 – 9.0
02	Temperature .	°C	25.1	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	9.2	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	17	30
05	Chemical Oxygen Demand	mg/l	61	250
06	Oil & Grease	mg/l	<0.1	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	4.2	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	16.9	100
10	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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Date

: 10/08/2019

Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

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

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 08.07.2019

Sl. No.	Location(s)	Day	time	Night Time	
	(0)	Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	72	75	65	70
2	Near CPP Area	68	75	65	70
3	Near Limestone Storage Yard	65	75	54	70
4	Near Coal Storage Yard	65	75	56	70
5	Near Raw Mill	73	75	63	70
6	Near Cement Mill	71	75	62	70
7	Near Administrative Building	61	75	55	70
8	Power House	74	75	67	70



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Report No.: ENV/GSCL/FE/JUL/19-20/01

Date

: 10/08/2019

Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM (µg/m³)	Limits (µg/m³)
08.07.2019	Fly-ash Storage Section	1776	5000
08.07.2019	Coal Storage Section	523	2000
09.07.2019	Limestone Storage Section	1502	5000
09.07.2019	Cement Packing Section	1761	5000

Sampled & Analysed by: ENVIROCON, Digboi



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Report No.: ENV/GSCL/ETP/JUL/19-20/01

Date : 10/08/2019

Order No.: SOML/00013/19-20

Date : 13/04/2019

GOLDSTONE CEMENTS LIMITED

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

ETP WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water

Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client

Collected On: 09.07.2019

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	рН		6.7	5.5 - 9.0
02	Temperature	οС	27.8	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	14.2	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	21	30
05	Chemical Oxygen Demand	mg/l	75	250
06	Oil & Grease	mg/l	0.2	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	7.2	50
09	Total Kjeldahl Nitrogen (as NH3)	mg/l	19.7	100
10	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025



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.



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Report No.: ENV/GSCL/SW/JUL/19-20/01

Date

: 10/08/2019

Order No. : Nil

Date : Nil

GOLDSTONE CEMENTS LIMITED

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

P. O.:- Khliehriat Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Type : Surface Water Sample Source : Plant Nala Downstream

Collected By : Jointly by Envirocon & Client

Collected On : 29.07.2019

Sl. No.	Parameter(s)	Result(s)	Unit(s)
1,	рН	6.8	
2.	Temperature	22.8	°C
3.	Biochemical Oxygen Demand (3 days at 27°C)	2	mg/L
4.	Chemical Oxygen Demand	12	mg/L
5.	Oil & Grease	<0.1	mg/L
6.	Total Dissolved Solids	91.2	mg/L
7.	Total Suspended Solids	71	mg/L
8.	Chloride	3.6	mg/L
9.	Total Residual Chlorine	ND	mg/L
10.	Ammonical Nitrogen (as N)	0.92	mg/L
11.	Free Ammonia (as NH ₃)	<0.01	mg/L
12.	Total Kjeldahl Nitrogen (as N)	4.6	mg/L
13.	Sulphate	16.8	mg/L
14.	Iron (as Fe)	<0.01	mg/L
15.	Copper (as Cu)	<0.01	mg/L
16.	Zinc (as Zn)	ND	mg/L
17.	Nickel (as Ni)	ND	
18.	Fluoride (as F)	<0.01	mg/L
19.	E Coli	Absent	mg/L MNP/100 ml

Analysis Protocol: IS 3025

ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

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

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Report No.: ENV/GSCL/SW/JUL/19-20/02

Date

: 10/08/2019

Order No.: NII

Date : NII

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .: - Khliehriat Meghalaya-793200

SURFACE WATER ANALYSIS RESULTS

Sample Type : Surface Water Sample Source : Plant Nala upstream

Collected By : Jointly by Envirocon & Client Collected On : 29.07.2019

Sl. No.	Parameter(s)	Result(s)	Unit(s)
1,	pH	6.8	
2.	Temperature	22.8	оС
3.	Biochemical Oxygen Demand (3 days at 27°C)	2	mg/L
4.	Chemical Oxygen Demand	14	mg/L
5,	Oil & Grease	<0.1	mg/L
6.	Total Dissolved Solids	93.6	mg/L
7.	Total Suspended Solids	68	mg/L
8.	Chloride	3.7	mg/L
9.	Total Residual Chlorine	ND	mg/L
10.	Ammonical Nitrogen (as N)	0.96	mg/L
11.	Free Ammonia (as NH ₃)	<0.01	mg/L
12.	Total Kjeldahl Nitrogen (as N)	4.2	mg/L
13.	Sulphate	17.2	mg/L
14.	Iron (as Fe)	<0.01	mg/L
15.	Copper (as Cu)	<0.01	mg/L
16.	Zinc (as Zn)	ND	mg/L
17.	Nickel (as Ni)	ND	mg/L
18.	Fluoride (as F)	<0.01	mg/L
19.	E Coli	Absent	MNP/100 m

Analysis Protocol: IS 3025

ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

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

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Report No.: ENV/GSCL/AAQ/AUG/19-20/01

Date :31/08/2019 Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .: - Khliehriat Meghalaya-793200

AMBIENT AIR QUALITY TEST RESULTS

SL.	Location(s)		PM 2.5 (μg/m³)	PM 10	NO ₂	SO ₂	
No.	Limit(s) →	Date of Sampling	(μg/ III-) 60	(µg/m³)	(µg/m³)	(μg/m³) 80	
	.,		(24 Hrs. Av.)	(24 Hrs. Av.)	(24 Hrs. Av.)	(24 Hrs. Av.)	
1.	Near CPP	16.08.2019	23.2	51.2	13.1	7.6	
2.	Near Secondary Crusher	16.08.2019	24.8	56.7	12.8	7.9	
3.	Near Fly Ash Shed	17.08.2019	23.9	53.9	9.2	6.5	
4.	Near Temple	17.08.2019	17.1	37.2	ND	ND	

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/DW/AUG/19-20/01

:31/08/2019

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

Order No. : SOML/00013/19-20 : 13/04/2019

DRINKING WATER ANALYSIS RESULTS

Sample Type : Drinking Water

Sample Source

:	17.	08.20	119

SI. 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	0.07	1.0
5.	рН	7.1	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	87.2	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	23	75
10.	Chloride (as Cl), mg/l, Max	1.8	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	<0.01	0.3
15.	Magnesium (as Mg), mg/l, Max	2.3	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	<0.01	45
19.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20.	Sulfate (as SO ₄), mg/l, Max	18	200
1.	Total Alkalinity(as CaCO ₃), mg/l, Max	46	200
2.	Total Hardness, (as CaCO ₃), mg/l, Max	15.1	200
3.	Cadmium (as Cd), mg/l, Max	ND	0.003
4.	Cyanide (as CN), mg/l, Max	ND	0.05
5.	Lead (as Pb), mg/l, Max	ND	0.01
6.	Mercury (as Hg), mg/l, Max	ND	0.001
7.	Selenium (as Se), mg/l, Max	ND	0.01
в. [Total Arsenic (as As), mg/l, Max	ND	0.01
9.	Total Chromium, (as Cr), mg/l, Max	ND	0.05
).	Anionic Detergents (as MBAS), mg/l	ND	0.03
	Total Coliform, MPN/100 ml	NIL	10 Max
. 1	Faecal Coliforms/ 100 ml	NIL	Absent
. †	E. Coli / 100 ml	NIL	Absent

Analysis Protocol: Digboi

ND: Not Detected

NOTE:

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Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/GSCL/NLM/AUG/19-20/01

Date

: 31/08/2019

Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 16.08.2019

SI. No.	Logation(c)	Day	time	Night Time	
	Location(s)	Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)
1	Near Coal Mill	71	75	64	70
2	Near CPP Area	67	75	61	70
3	Near Limestone Storage Yard	62	75	55	70
4	Near Coal Storage Yard	64	75	54	70
5	Near Raw Mill	73	75	62	70
6	Near Cement Mill	70	75	63	70
7	Near Administrative Building	63	75	56	70
8	Power House	72	75	68	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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Report No.: ENV/GSCL/FE/AUG/19-20/01

Date

: 31/08/2019

Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM (µg/m³)	Limits (µg/m³)
16.08.2019	Fly-ash Storage Section	1728	5000
16.08.2019	Coal Storage Section	613	2000
17.08.2019	Limestone Storage Section	1521	5000
17.08.2019	Cement Packing Section	1784	5000

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/ETP/AUG/19-20/01

Date : 31/08/2019 Order No.: SOML/00013/19-20

: 13/04/2019 Date

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .:- Khliehriat Meghalaya-793200

ETP WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client

Collected On: 17.08.2019

SI. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	рН		6.7	5.5 - 9.0
02	Temperature	°C	27.5	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	12.9	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	19	30
05	Chemical Oxygen Demand	mg/l	68	250
06	Oil & Grease	mg/l	<0.1	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	5.9	50
09	Total Kjeldahl Nitrogen (as NH3)	mg/l	15.6	100
10	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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<u>Recognised By</u> PCB, Assam & MSPCB, Meghalaya

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Report No. : ENV/GSCL/AAQ/SEPT/19-20/01

Date : 03/10/2019

Order No. : SOML/00013/19-20

Date : 13/04/2019

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)	NH₃ (µg/m³)	CO (mg/m³)	O ₃ (μg/m³)	B(a)P (ng/m³)	С ₆ Н 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.
Near CPP	12.09.2019	25.6	50.2	12.6	7.8	14.2	0.050			8-7		Average	Average]
Near Secondary					7.0	14.2	0.058	4.5	<0.1	<0.01	<0.01	<0.01	< 0.01
Crusher	12.09.2019	27.2	54.8	13.5	. 8.4	13.7	0.051	4.1		W 0.7 H			
Maan Clos Ask Chast	40.00.00.0					13.7	0.031	4.1	<0.1	<0.01	<0.01	<0.01	< 0.01
Near Fly Ash Shed	13.09.2019	26.8	49.6	11.2	7.5	11.8	0.023	3.8	<0.1	<0.01		2.53	
Near Temple	13.09.2019	18.4	44.0	12072				5.0	~U.1	<0.01	<0.01	<0.01	<0.01
- Compie	13.09.2019	16.4	41.2	ND	ND	7.8	<0.01	2.2	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182 ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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<u>Recognisea By</u> 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/DW/SEPT/19-20/01

Date

: 03/10/2019

Order No. Date : SOML/00013/19-20 : 13/04/2019

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 & C

Sample Source

: Canteen

Collected By	: Jointly by Envirocon & Client	Collected On : 13.09.2	019
SI. 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	0.077	1.0
5.	рН	7.1	6.5 - 8.5
6.	Total Dissolved Solids, mg/l, Max	86.3	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	27	75
10.	Chloride (as CI), mg/l, Max	2.2	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	0.012	0.3
15.	Magnesium (as Mg), mg/l, Max	2.1	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	<0.01	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	52	200
22.	Total Hardness, (as CaCO ₃), mg/l, Max	16.6	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

Analysis Protocol: \$ 3025

E. Coli / 100 ml

Faecal Coliforms/ 100 ml

Absent

ND: Not Detected

Absent

Checked By: Mr. Pankaj Baroi, ENVIROCON

33.

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Assam

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NIL

NIL



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/NLM/SEPT/19-20/01

Date

:03/10/2019

Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

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

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 13.09.2019

Sl. No.	Location(s)	Day	time	Night Time		
	2000.001(3)	Result(s) (dB - A)	Limit(s) (dB - A)	Result(s) (dB - A)	Limit(s) (dB - A)	
1	Near Coal Mill	72	75	65	70	
2	Near CPP Area	65	75	59	70	
3	Near Limestone Storage Yard	62	75	54	70	
4	Near Coal Storage Yard	61	75	53	70	
5	Near Raw Mill	71	75	64	70	
6	Near Cement Mill	72	75	64	70	
7	Near Administrative Building	66	75	55	70	
8	Power House	70	75	67	70	



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/FE/SEPT/19-20/01

Date : 03/10/2019

Order No. : SOML/00013/19-20

Date : 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM (µg/m³)	Limits (µg/m³)
12.09.2019	Fly-ash Storage Section	1645	5000
12.09,2019	Coal Storage Section	644	2000
13.09.2019	Limestone Storage Section	1501	5000
13.09.2019	Cement Packing Section	1687	5000

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/GSCL/ETP/SEPT/19-20/01

Date :03/10/2019 Order No. : SOML/00013/19-20

Date

: 13/04/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .:- Khliehriat Meghalaya-793200

ETP WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water

Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client

Collected On: 13.09.2019

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH	5.5 6	6.6	5.5 - 9.0
02	Temperature	°C	27.1	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	8.2	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	18	30
05	Chemical Oxygen Demand	mg/l	62	250
06	Oil & Grease	mg/l	<0.1	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	6.3	50
09	Total Kjeldahl Nitrogen (as NH3)	mg/l	16.6	100
10	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/SW/SEPT/19-20/01

Date :03/10/2019 Order No. : SOGM/00103/19-20

:26/08/2019 Date

GOLDSTONE CEMENTS LIMITED

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

SURFACE WATER ANALYSIS RESULTS

Sample Type : Surface Water

Collected By : Jointly by Envirocon & Client Sample Source : Plant Nala Downstream

Collected On : 13.09.2019

Sl. No.	Parameter(s)	Result(s)	Unit(s)
1.	рН	6.7	
2.	Temperature	22.5	°C
3.	Biochemical Oxygen Demand (3 days at 27°C)	5	mg/L
4.	Chemical Oxygen Demand	28	mg/L
5.	Oil & Grease	<0.1	mg/L
6.	Total Dissolved Solids	121.7	mg/L
7.	Total Suspended Solids	64	mg/L
8.	Chloride	4.1	mg/L
9.	Total Residual Chlorine	ND	mg/L
10.	Ammonical Nitrogen (as N)	0.61	mg/L
11.	Free Ammonia (as NH ₃)	<0.01	mg/L
12.	Total Kjeldahl Nitrogen (as N)	4.1	mg/L
13.	Sulphate	19	mg/L
14.	Iron (as Fe)	<0.01	mg/L
15.	Copper (as Cu)	<0.01	mg/L
16.	Zinc (as Zn)	ND	mg/L
17.	Nickel (as Ni)	ND	mg/L
18.	Fluoride (as F)	<0.01	mg/L
19.	E Coli	Absent	MNP/100 ml

Analysis Protocol: IS 3025

ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

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



Report No.: ENV/GSCL/SW/SEPT/19-20/02

Date :03/10/2019 Order No. : SOGM/00103/19-20 :26/08/2019

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O .: - Khliehriat Meghalaya-793200

SURFACE WATER ANALYSIS RESULTS

Sample Type : Surface Water Sample Source : Plant Nala upstream

Collected By : Jointly by Envirocon & Client

Collected On : 29.07.2019

Date '

Sl. No.	Parameter(s)	Result(s)	Unit(s)
1.	рН	6.7	-
2.	Temperature	22.5	°C
3.	Biochemical Oxygen Demand (3 days at 27°C)	5	mg/L
4.	Chemical Oxygen Demand	31	mg/L
5.	Oil & Grease	<0.1	mg/L
6.	Total Dissolved Solids	124.6	mg/L
7.	Total Suspended Solids	69	mg/L
8.	Chloride	4.2	mg/L
9.	Total Residual Chlorine	ND	mg/L
10.	Ammonical Nitrogen (as N)	0.64	mg/L
11.	Free Ammonia (as NH ₃)	<0.01	mg/L
12.	Total Kjeldahl Nitrogen (as N)	4.3	mg/L
13.	Sulphate	21	mg/L
14.	Iron (as Fe)	<0.01	mg/L
15.	Copper (as Cu)	<0.01	mg/L
16.	Zinc (as Zn)	ND	mg/L
17.	Nickel (as Ni)	ND	mg/L
18.	Fluoride (as F)	<0.01	mg/L
19.	E Coli	Absent	MNP/100 m

Analysis Protocol: IS 3025

ND: Not Detected



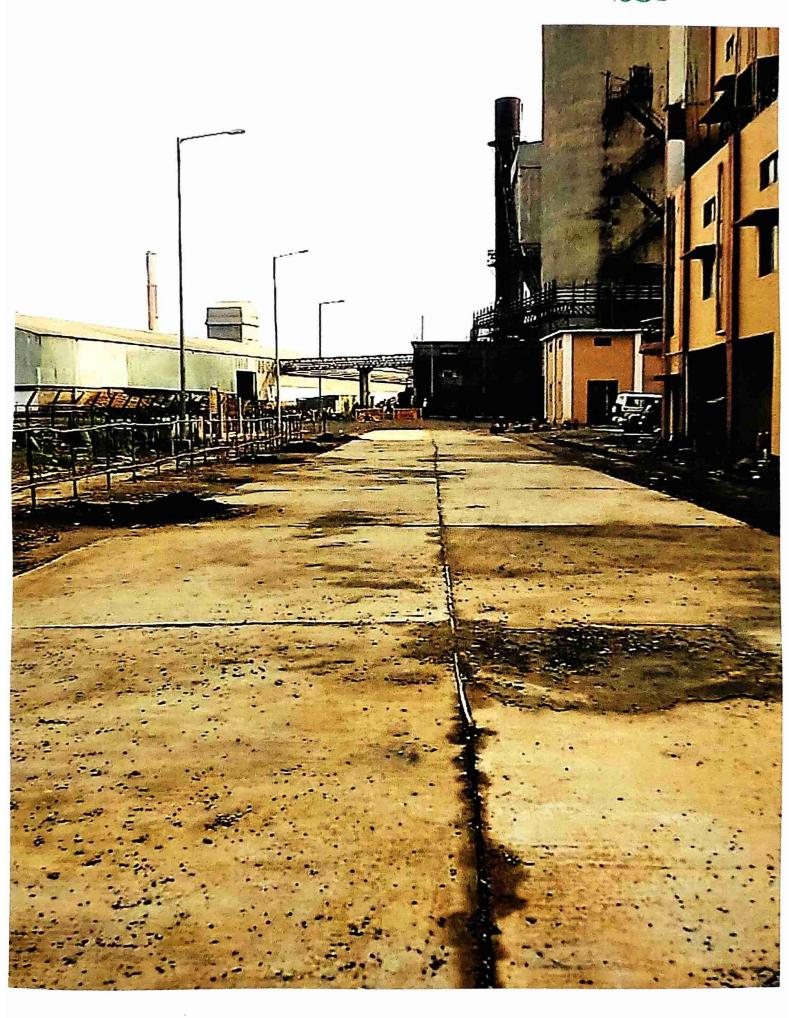
Checked By: Mr. Pankaj Baroi, ENVIROCON

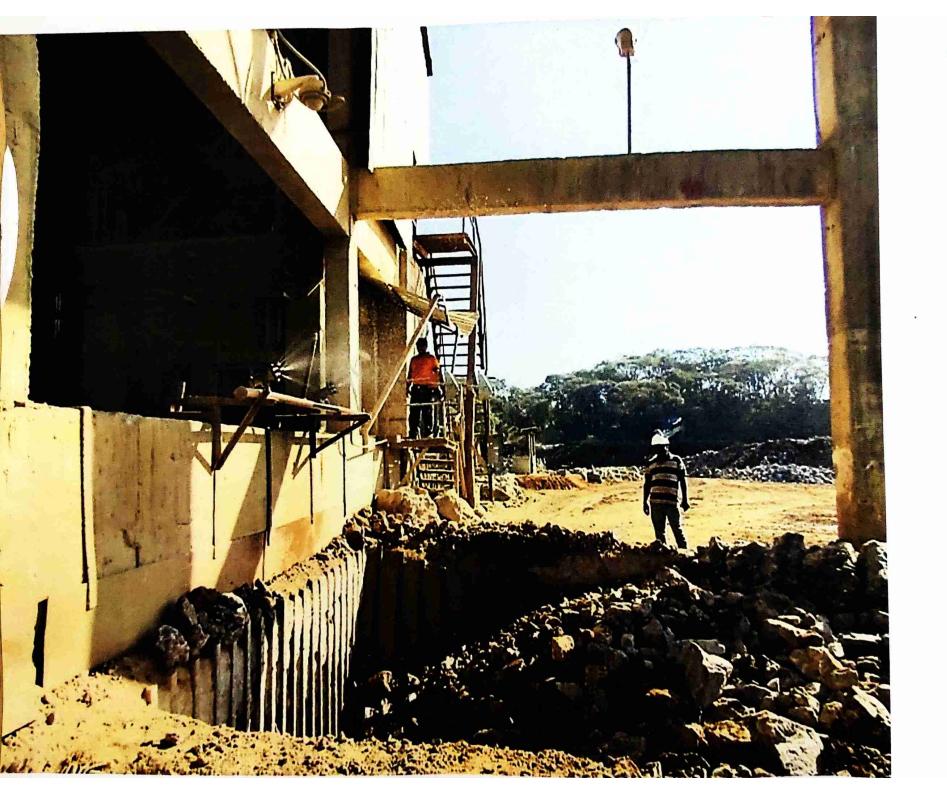
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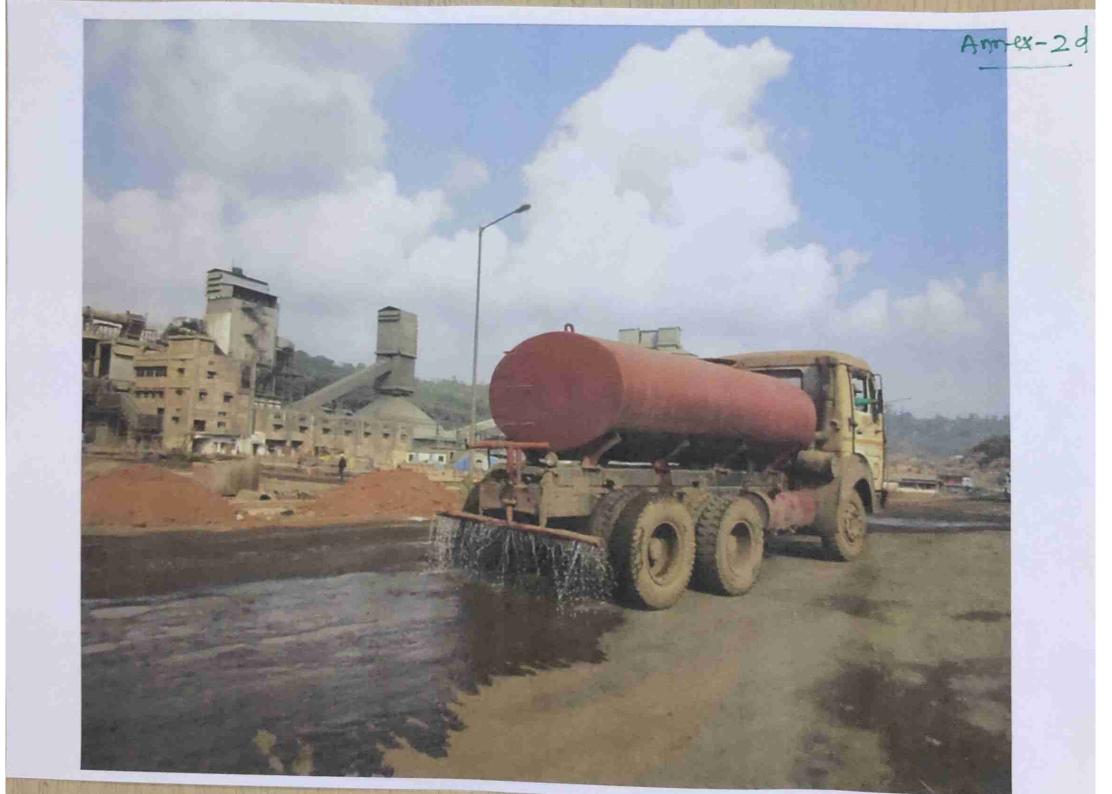
Annexure: 2



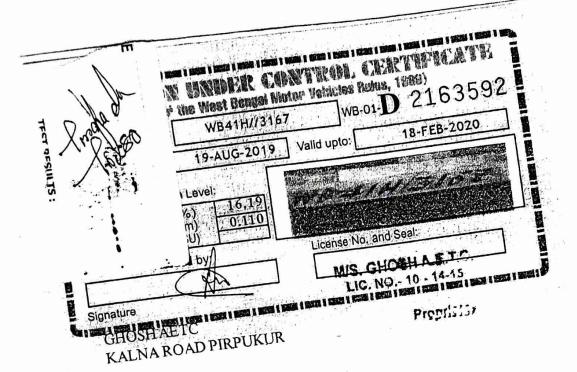








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ta Motors	S.No. RP	1546 M Min. 1166 2339	2892 RPM Max. 2092 2899	36 K m · 0.09l 0.07l	4.0 3.1	36 36	
102023 Ita Motors 18	S.No. RP	1546 M Min. 1166 2339	2892 RPM Max. 2092 2899 2901	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ita Motors 18	S.No. RP	1546 M Min. 1166 2339	2892 RPM Max. 2092 2899 2901	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ita Motors	S.No. RP	1546 M Min. 1166 2339	2892 RPM Max. 2092 2899 2901	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ita Motors 18	S.No. RP	1546 M Min. 1166 2339	2892 RPM Max. 2092 2899 2901	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ita Motors 18 RUCK	S.No. RP	1546 M Min. 1166 2339	2892 RPM Max. 2092 2899 2901	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ita Motors 18 RUCK	S.No. RP	1546 M Min. 1166 2339	2892 RPM Max. 2092 2899 2901	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ata Motors 18 RUCK ESEL	S.No. RP	1546 M Min. 1166 2339	2892 RPM Max. 2092 2899 2901	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
nta Motors 18 RUCK ESEL	S.No. RP	1546 M Min. 1166 2339 1940	2892 RPM Max. 2092 2899 2901	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ata Motors 18 RUCK ESEL 18	S.No. RP 1 2 3 Mean	1546 M Min. 1166 2339 1940	2892 2892 2899 2901 Pass	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ata Motors 18 RUCK ESEL	S.No. RP 1 2 3 Mean	1546 M Min. 1166 2339 1940	2892 2892 2899 2901 Pass	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
Ita Motors 18 RUCK ESEL 18 854	S.No. RP 1 2 3 Mean OilTemp	1546 M Min. 1166 2339 1940	2892 2892 2899 2901 Pass	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ta Motors 18 RUCK ESEL 18	S.No. RP 1 2 3 Mean	1546 M Min. 1166 2339 1940	2892 2892 2899 2901 Pass	36 K m · 0.09 0.07 0.07	4.0 3.1 3.2	36 36	
ta Motors 18 UCK SEL 18 44680 63	S.No RP 1 2 3 Mean OilTemp	1546 M Min. 1166 2339 1940 MMin	2892 2899 2899 2901 Pass 36 1546 2892	36 K m ⁻ * 0.09i 0.07i 0.07i 0.08	4.0 3.1 3.2	36 36	
ta Motors 18 UCK ESEL 18 154 44680	S.No. RP 1 2 3 Mean OilTemp	1546 M Min. 1166 2339 1940	2892 2892 2899 2901 Pass 36 1546 2892 ALAM SEK	36 K m ⁻ , 0.09; 0.07; 0.07; 0.08	4.0 3.1 3.2	36 36	



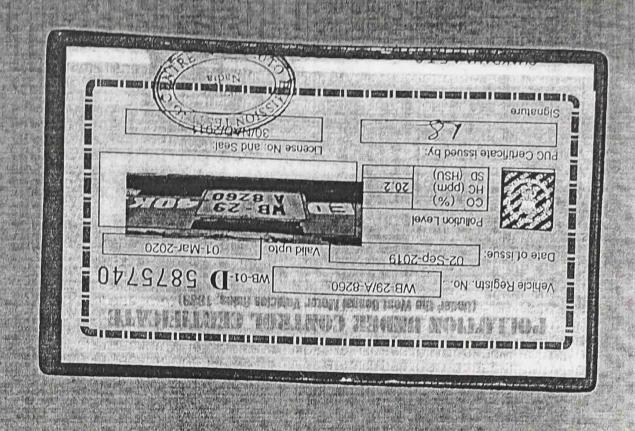
GOVERNMENT OF WEST BENGAL

State Transport Department



5/3/2

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Report No.: ENV/GSCL/SW/JUN/19-20/01

Date

: 11/07/2019

Order No. : Nil

Date : Nil

GOLDSTONE CEMENTS LIMITED

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

SURFACE WATER ANALYSIS RESULTS

Sample Type Sample Source : Plant Nala Downstream

: Surface Water

Collected By : Jointly by Envirocon & Client Collected On : 23.06.2019

CL N-		Collected On : 23.06.2019		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	
1.	рН	6.8		
2.	Temperature	21.8	°C	
3.	Biochemical Oxygen Demand (3 days at 27°C)	4	mg/L	
4.	Chemical Oxygen Demand	15	mg/L	
5.	Oil & Grease	<0.1	mg/L	
6.	Total Dissolved Solids	95.3	mg/L	
7.	Total Suspended Solids	64	mg/L	
8.	Chloride	7.1	mg/L	
9.	Total Residual Chlorine	ND	mg/L	
10.	Ammonical Nitrogen (as N)	1.6	mg/L	
11.	Free Ammonia (as NH ₃)	<0.01	mg/L	
12.	Total Kjeldahl Nitrogen (as N)	8.2	mg/L	
13.	Sulphate	25	mg/L	
14.	Iron (as Fe)	0.06	mg/L	
15.	Copper (as Cu)	0.06	mg/L	
16.	Zinc (as Zn)	ND		
17.	Nickel (as Ni)	ND	mg/L	
18.	Fluoride (as F)	<0.01	mg/L	
19.	E Coli	Absent	mg/L MNP/100 ml	

Analysis Protocol: IS 3025

ND: Not Detected



Checked By: Mr. Pankaj Baroi, ENVIROCON

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<u>Recognised By</u> PCB, Assam & MSPCB, Meghalaya Digboi Stores Building, New Market Digboi, Assam - 786 171

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



Report No.: ENV/GSCL/SW/JUN/19-20/02

Date

: 11/07/2019

Order No. : Nil

Date

: Nil

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Type : Surface Water Sample Source : Plant Nala upstream

Collected By : Jointly by Envirocon & Client

Collected On : 23.06.2019

Sl. No.	Parameter(s)	Result(s)	Unit(s)
1.	рН	6.8	
2.	Temperature	21.8	°C
3.	Biochemical Oxygen Demand (3 days at 27°C)	4	mg/L
4.	Chemical Oxygen Demand	16	mg/L
5.	Oil & Grease	<0.1	mg/L
6.	Total Dissolved Solids	96.8	mg/L
7.	Total Suspended Solids	66	mg/L
8.	Chloride	7.3	mg/L
9.	Total Residual Chlorine	ND	mg/L
10.	Ammonical Nitrogen (as N)	1.8	mg/L
11.	Free Ammonia (as NH ₃)	<0.01 8.4	mg/L mg/L
12.	Total Kjeldahl Nitrogen (as N)		
13.	Sulphate	27	mg/L
14.	Iron (as Fe)	0.08	mg/L
15.	Copper (as Cu)	0.07	mg/L
16.	Zinc (as Zn)	ND	mg/L
17.	Nickel (as Ni)	ND	mg/L
18.	Fluoride (as F)	<0.01	mg/L
19.	E Coli	Absent	MNP/100 m

Analysis Protocol: IS 3025

ND: Not Detected



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.



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/SW/JUL/19-20/01

Date

: 10/08/2019

Order No. : Nil

Date : Nil

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Type : Surface Water

Sample Source : Plant Nala Downstream

Collected By : Jointly by Envirocon & Client

Collected On : 29.07.2019

Sl. No.	, Parameter(s)	Result(s)	Unit(s)
1.	pH	6.8	
2.	Temperature	22.8	-
3.	Biochemical Oxygen Demand (3 days at 27°C)	22.8	°C mg/L
4.	Chemical Oxygen Demand	12	
5.	Oil & Grease		mg/L
6.	Total Dissolved Solids	<0.1	mg/L
7.	Total Suspended Solids	91.2	mg/L
8.	Chloride	71	mg/L
9.		3.6	mg/L
	Total Residual Chlorine	ND	mg/L
10.	Ammonical Nitrogen (as N)	0.92	mg/L
11.	Free Ammonia (as NH ₃)	<0.01	mg/L
12.	Total Kjeldahl Nitrogen (as N)	4.6	
13.	Sulphate	16.8	mg/L
14.	Iron (as Fe)		mg/L
15.	Copper (as Cu)	<0.01	mg/L
16.		<0.01	mg/L
	Zinc (as Zn)	ND	mg/L
17.	Nickel (as Ni)	ND	mg/L
18.	Fluoride (as F)	<0.01	mg/L
19.	E Coli	Absent	MNP/100 ml

Analysis Protocol: IS 3025

ND: Not Detected



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.

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<u>Recognisea By</u> 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/SW/JUL/19-20/02

Date : 10/08/2019

Order No. : Nil

Date : Ni

GOLDSTONE CEMENTS LIMITED

Village- Musiang Lamare (Old)

P. O.:- Khliehriat Meghalaya- 793200

SURFACE WATER ANALYSIS RESULTS

Sample Type : Surface Water

Sample Source : Plant Nala upstream

Collected By : Jointly by Envirocon & Client

Collected On : 29.07.2019

Sl. No.	Parameter(s)	Result(s)	Unit(s)
1.	рН	6.8	
2.	Temperature	22.8	۰с
3.	Biochemical Oxygen Demand (3 days at 27°C)	2	mg/L
4.	Chemical Oxygen Demand	14	mg/L
5.	Oil & Grease	<0.1	mg/L
6.	Total Dissolved Solids	93.6	mg/L
7.	Total Suspended Solids	68	mg/L
8.	Chloride	3.7	mg/L
9.	Total Residual Chlorine	ND	mg/L
10.	Ammonical Nitrogen (as N)	0.96	mg/L
11.	Free Ammonia (as NH ₃)	<0.01	mg/L
12.	Total Kjeldahl Nitrogen (as N)	4.2	mg/L
13.	Sulphate	17.2	mg/L
14.	Iron (as Fe)	<0.01	mg/L
15.	Copper (as Cu)	<0.01	mg/L
16.	Zinc (as Zn)	ND	mg/L
17.	Nickel (as Ni)	ND	mg/L
18.	Fluoride (as F)	<0.01	mg/L
19.	E Coli	Absent	MNP/100 ml

Analysis Protocol: IS 3025

ND: Not Detected



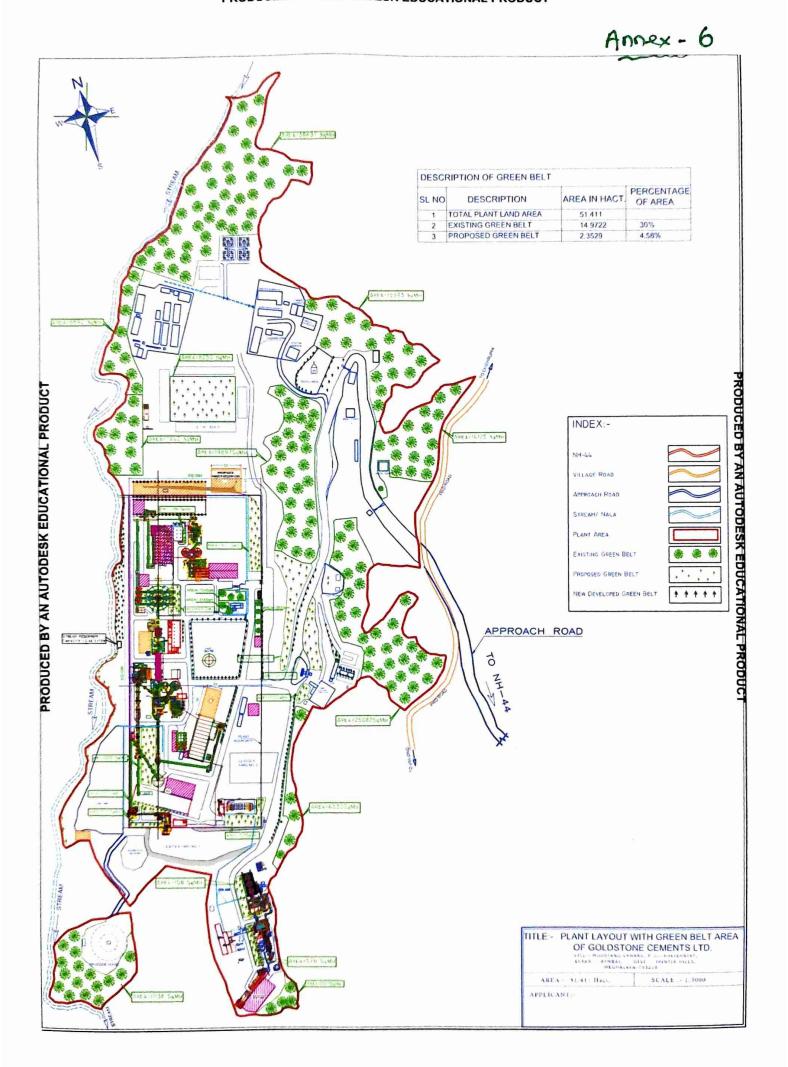
Checked By: Mr. Pankaj Baroi, ENVIROCON

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.







Dr. Mandeep Sarma Basistha MBBS, MD, CCEBDM, CCMTD

REG NO-20344 (AMC) PH.NO-8474887348

Annex-7

Patient Name

Gobinda Nomosudra

Date 28-8-99

Age &9 Gender

Reo Nordon 500

Sos. of H= 169.

ID = B261

Next appointment on:

Apollo Clinic

PATIENT INFORMATION FORM

Name: Golainda No	mosudra.	Age:
Gender / Sex:		MR No

HISTORY

1. Do you have history of fever? (Yes / No), if Yes, kindly mention duration in days. 2. Any history of night sweats? (Yes / No) 3. History of persistent cough? (Yes / No), if yes, kindly mention duration in days. 4. History of coughing up of blood? (Yes / No) 5. History of fatigue? (Yes / No) 6. History of Tuberculosis? (Yes / No)	
2. Any history of night sweats? (Yes / No)	•
3. History of persistent cough? (Yes / No), if yes, kindly mention duration in days.	
4. History of coughing up of blood? (Yes / No)	
5. History of fatigue? (Yes / No)	
6. History of loss of weight? (Yes / No)	••
8. History of Tuberculosis in close family member? (Yes / No)	

Apollo Clinic

Kanchan Rd, Ulubari, Guwahati, Assam 781005, Ph: 90856 12000, 98641 12000
Siddha Point, Opposite Marwari Hospital, Athgaon, Guwahati, Assam 781001, Ph: 90856 19000
www.apollocliniczuwahati.com



Mrs. M. Borah Chetia Eye Consultant, M.Opt. Fellowship LVPEI, Hyderabad Trainee-Kol.Med.Col.(R.I.O) Mobile No.:+91 7896102151

Patient Name Govinder Normo Sudice

Date 28/8/19
Age 29 Gender H

Clo - Rogular chock -up

Review orfur 17km

D____

Next appointment on:

RECORDERS & MEDICARE SYSTEMADO O

181/5,Phase-I,Industrial Area,Chandigarh-160002

ient: GOBINDA NOMOSUDRA

Refd. By:

14

12

10

8

6

4

2

0

-2 -4 -6

Pred.Eqns: RECORDERS

F(Litres/Sec)

UFEF254

DFEF508

OFEF75%

3 FVC V(Litres)

6

Date : 28-Aug-2019 04:30 PM

FEFR

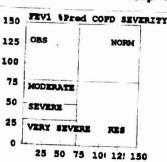
Age : 29 Years

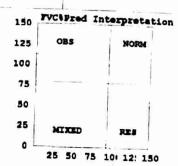
Gender : Male

Height : 169 Cms Weight : 73 Kgs

Smoker : No Eth. Corr: 100

ID: B261 Temp :





Expertise. Closer to you.

(FEV1/FVC) trred

(FEV1/FVC) &Pred

Parameter		Spirometry (FVC					red
Paramete	r	Pred	M.Pre	&Pred	M. Post		% Imp
FVC	(L)	03.55	04.02	113			e railo
FEV1	(L)	03.02	00.07	002			1.60
FEV1/FVC		85.07	01.74	002			
FEF25-75	(L/s)	04.42	03.29	074			
PEFR	(L/s)	09.16	03.64	040			
FIVC	(L)		03.81				-
FEV.5	(L)		00.05	~			
FEV3	(L)	03.45	00.09	003			
PIFR	(L/s)		02.74				
EF75-85	(L/s)		02.55				
EF.2-1.2		07.59	02.97	039			
EF 25%	(L/s)	08.06	03.52	044			
EF 50%	(L/s)	05.92	03.50	059			
EF 75%	(L/s)	03.16	02.80	089			
EV.5/PVC			01.24				
EV3/FVC	(8)	97.18	02.24	002			
ET	(Sec)		05.72				
xplTime	(Sec)		00.07				
ung Age	(Yrs)	029	05.07	197			40.00
EV6	(L)	03.55	04.02	100 to 10			
IF25%	(L/s)		02.74	113			
IF50%	(L/s)		02.74				
IF75%	(L/a)						
	12/0/		02.36				* **

-8 10 V(Litres) 8 FRE. 7 FOST б 5 eFEV6 UFEV3 3 FEV1 2 0 5 T (Seconds)

Pre Test COPD Severity

Very Severe stage COPD as FEV1_FVC < 70% and 0% <= FEV1 <= 30%

Pre Medication Report Indicates

Early Small Airway Obstruction as FEF 25-75 %Pred or PEFR %Pred < 70

Severe Obstruction as (FEV1/FVC) %Pred <65 and FVC%Pred >80

Slow Stant Nomed Spires wet?

98641 12000 / 94356 23456

R.K. Life Services Pvt Ltd. (CIN. No : U85110AS2002PTC006987)

G S Road, Guwahati- 781007 Phone (0361) 246 1473 - 74 E-mail guwahati@theapollocanic com

Apollo Clinic Apollo Clinic Apollo Clinic Apollo Clinic Kinichin Road Opo 86/ii Seribber attra al confet sidnii Ponces Propad Inicat action. Athgaon, Opp Marwari Hospital Phone 9085619000(M) www.apolloclinic.com

ed as per ISO - 15189 : 2012 - NABL Standards IST NABL ACCREDITED LABORATORY IN ASSAM



Patient Name

: Mr. Gobinda Nomosudra

UHIDAMR No.

: FGUW 0000030267

Visit Date

: 30-08-2019 18:06

Sample Collected on : 31-08-2019 14:06

Ref Doctor

Package Name : GOLD STONE MEDICAL AMC - WORKERS - GUW EmplAuth/TPA ID

Sponsor Name

: 258

: GOLD STONE CEMENTS LTD

Age / Gender

: 29Y/Male

OP Visit No

: FGUWOPV40690

Reported on Specimen

: 14-09-2019 14:42 : Serum

Pres Doctor:

INTERVALS

DEPARTMENT OF LABORATORY MEDICINE

TEST NAME

RESULT

BIOLOGICAL REFERENCE

UNITS

AFB STAIN (ZN) / SMEAR EXAM - SPUTUM

AFB STAIN (ZN) / SMEAR EXAM - SPUTUM

No Acid fast bacilli seen in the smear examined. End of the report

Results are to be correlated clinically

Lab Technician / Technologist Rupen_Das

Dr Aubreen R Khan MD Microbiologist

Jen

<u>AUDIOGRAM</u>

octor / Audiologist

Apollo

Name: _	Grabin	da -1	yoma	Sudna		_Age _	20 Sex M
Address							Date 28-19
125 -10 0 10 20 30 40 50		FREQUENC	1 A 2000 A D -1 2000		00 4000 6000 8	HEARING LEVEL IN DECIBELS (ANSI) 1989	NORMAL/MINIMAL HEARING LOSS Ability to understand speech MILD HEARING LOSS No significant difficulty with faint speech MODERATE HEARING LOSS Difficulty only with faint speech Amplification needed MODERATELY SEVERE HEARING LOSS Frequent difficulty with normal speech
70 80 90						ELS (ANSI) 19	SEVERE HEARING LOSS Frequent difficulty with loud speech Understand only shouled or amplified speech
100						89	PROFOUND HEARING LOSS May not understand every amplified speech
120	8% IMPO	14% RTANCE OF	22% SPEECH	33% NTELLIGIBI	23% LITY		<value list="" missing=""></value>

SPEECH	RESULT			
Speech Reception Threshold (SRT)	Most Comfortable Level (MOL)	Un Comfortable Level (UOL)	Word Discrimination Percentage	Discrimination Level (dB)
Right				
Left				
Binaural				
Unaided Boundfield				
Aided Boundfield				

AUDIOGRAN	A KEY	1							
	L	R	NRL	NRF	₹	L	R	NRL	NRR
Air Condition	X	0	X,	Ş	Bone Conduction Forehead	٧	٧	Z	y
Air Condition Masked		Δ	Q,	Ą	Bone Conduction Forehead Mask	٦	Γ	Ţ	Ţ
Bone Conduction	>	<	\$	5	Threshold of Discomfort Pure	•	•	9	٠
Bone Conduction Masked]	[ſ	Į					

COMMENTS

normal by, semitivity



Name

: Gobinda Nansabra

Referred By : self Patient's Id : 203

Procedure : X-Ray Chest (PA view) Age: 29 Yrs Sex: male Date: 11-Oct-2019

Poor quality skiagram

No active parenchymal lesion seen in the visible lung fields.

Cardio-thoracic ratio is within normal limit.

Aorta is normal. .

Both the pleural area appear clear.

Visible bony thorax appear intact.

Dr Sandipan Nath

Consultant Sonologist (Radiodiagnosis)

This is a professional report based on imaging findings only correlate with other relevant investigations. This report is not for medico-legal purpose (In case of any discrepancy due to machine error or typing error, please get it rectified immediately)

Goldstone Cements Ltd. Musiang Lamare (Old)

Investment Sheet of Pollution Equipments

SI.No	Particulars	Supplier	Equipment	Mechanical	Civil	Electrical & Instrument	Transportation (Equipment, steel, Electricals,misscellaneous)	Total
1	Crusher Bag Filter	Larsen &Tourbo, Kansbahal	4396200					
2	Raw Mill Bag House							
3	Clinker Cooler ESP							
4	Bag Filter	Thermax	60683388					
5	Auxillaries]						
6	Ancillaries		*					
	Cement Mill Bag House	Rieco	13878650	4000000	52500000	21000000	1000000	
8	Packing House Bag house	Flsmidth	3982307	4000000	52500000	21000000	1000000	
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	. 6			•	
	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	4000000	52500000	21000000	1000000	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

A

Goldstone Cements Limited

upto Date: 31.03.2019

Recurring Pollution Control Expenditure for 2018-19

SI No		Particulars	Purchase Order Number	Quantity	Amount
1	04.05.2018	Bag Filter 149MM dia X 7060 MM LG	PGMS/00058/18-19		5510410
2	19.06.2018	Bag Filter 160MM dia X 4550 MM LG		1000 bags	
3	15.00.2018	Filter Bags-149MM DIA X 4265 MM LG	PGMS/00228/18-19	200 bags	863/60
4	12.07.2018	Bag Filter 149MM dia X 7060 MM LG	PGMS/00294/18-19	400 bags 1000 bags	
	20.07.2018		PGKS/00109/19-19	1000 bags	124519.5
6	07.08.2018	Filter Bags-149MM DIA X 4265 MM LG	PGMS/00354/18-19	700 bags	
7	11.08.2018	Filter Bags Cage	PGMS/00369/18-19		
8	22.08.2018	Bag Filter 160MM dia X 4550 MM LG	PGMS/00400/18-19	700 bags 350 bags	
		Sox Nox Analyser spare parts	PGKS/00100/18-19	330 bags	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	1 5.13/ 55137/18 13	100-	27000
13	31.03.2019	Third party environmental monitoring			
		Salaries and wages for Environmental activities			751660
		Construction of Concrete road			1149000
		Toal			775336
					20125332.5



GOLDSTONE CEMENTS LIMITED

Musiang Lamare (Old)

ENVIRONMETAL INFORMATION BOARD

Ambient Air Quality, Stack Emission, Noise & Water Analysis Data

	Ambient Att	r Qua	illy, Jidck		.,	-,				-	
The second second	1 AMBIENT AIR QUALITY (ug/rr?)	Monthly		Locations			1		· Limils	7 9 4	
	Parameters	Date of	Near CPP	Near	Near	Near		if., Ct.	ndards		144
	Tan diditation 2	Monitoring		Secondary		Temple	Qual	IIV SIA	Limits R		
		13-03-1	al	Crusher	Ash	1		isside iral, li			
		13 03 1.	1		Shed	1				1	
				= 50.0		===			Area	April 1	
	(A) Particulate matter		56.8	52.8	55.9	50.2	<	60m	g/m		8 1 2 6
	(-2.5)	1								4	647
	(B) Particulate matter		98 .9	95.4	97.8	88.2	<	1004	g/m^3		
	(>10)		40.0								
R Table	(C) Sulphur Dioxide-sa		26.1	21.4	19.2	15.8	< 8	30 Aug/	m³		
	D-Nilrogen Dioxide No		43.2	38.6	28.9	24.8		Oug/			
-//	2.STACK EMISSION		Locations		Average R	and the second second			Limits		
	2.3 MCK ETTISSION			1 Tornity	riverage N	EJUIIJ		ng/N		-	
		Monitoring		DAA	-	NO				10 E	A STATE
	•		1 D 1411	PM	So.	N0x	PM		NO		-D
	1. E 10.		1. Raw Mill	19.2	393.5	201.4	30	1000	600		
	Unit mg/Nm	-	0.0.1111	37 -	7455						acreditors and
		-	2. Coal Mill	23.7		144.8		-			
	<u></u>		3. Cooler ESP	21.5	BDL	BDL					
	=		4. Cement Mill	23.7	BDL	BDL		-			
			5. CPP	37.4	477.1	224.6	50	600	300		
	3. WATER Quality	Date of	DRINKING	Permissible	FUGIT	IVE	Results		mits		
	-	Monitoring	Water (Results)	Limits (mg/) EMISSI	ON	(ug/m				
	I.PH		7.2	6.5-8.5	FlyAsh S	inrade	2374		000		
	2. Total Dissolve		166	< 500	Section		2017	- 30	700		
5.5	_ Solids (mg/1)		-		Cection	'M	-,				
	3- RFC (m3/1)	1	Tare .	-02	Coal Stora		4400				
	4. Chloride (mg/1)		3.2	250	coa Stora	ne	1420	20	000		Name of the last
C. LANCONS .	5-Total Hardness (mg/s)		5.8	0.0	Section						
	6-Total Alkalinily	(4)	92.0	74	Limestone	Storage	1786	50	100		
	7. Calcium (mg/1)		260	71	Secti	UPON COLOR					
A Common of the	8-Magnesium (mg/)		3.3	~75	Cement Pa	cking	2426	50	000	Section 19	Sall And
	O-magnesion (mg/)		4 610100	-30	Secti	on					
- 75 to 100	A) Industrial Area	D 14	4- NOISE	LE VEL						C1-61	
	The state of the s		NEAR ADMIN	NEAR	NEAL	R	NEAR	STA	MNED		a difference and a second
	• n -	RAW MILL	BUILDING	COALMILL	CEMENT	MILL	CPP	IM	IT •		Name of Street
Contraction of the Contraction o	Day Time	× 70	52 52	73	67		71		dBA		
	Night Time	× 64	52	65	60		66	70	GRA		
		1	7			L		10	(dBA)	THE PARTY.	
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3月1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日		16,714	The Marine		MALE	Man !	150	A		01	THE R
The second	3	Value 1	-	-							
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The second second		APPENDING MANAGEMENT	A PARTY OF THE PAR	A THE REAL PROPERTY.				100		Maria N.	A STATE OF