



Date: 20.05.2025

The Inspector General of Forest (Central)
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office, Guwahati
Forth Floor, Housefed, Rukminigoan, GS Road
Guwahati.

Sub. : Six Monthly Compliance Report of EC stipulations on Star Cement Limited (Formerly Cement Manufacturing Company Limited.), Guwahati Grinding Unit at Village: Chamata Pathar, Kamrup District, Assam due for the period of October, 2024 to March, 2025.

Ref. : Environment Clearance Issued to Cement Manufacturing Company Limited's Guwahati Cement Grinding Unit by MoEF vide letter no. F.No. J-11011/733/2008-IA II (I) dated 2nd January, 2009.

Dear Sir,

With reference to the above mentioned subject, we are submitting herewith the Six Monthly Compliance Report of the stipulated environmental conditions of environment clearance along with results of monitored data for the period of October, 2024 to March, 2025.

Thanking you,

Yours truly,

For Star Cement Limited

Authorized Signatory

Encl. : As Above

- Copy to :
1. Director, Ministry of Environment, Forest and Climate Change, Government of India
Indira Paryavaran Bhawan, Jorbhag, New Delhi – 110003
 2. Additional Director & Zonal Officer,
Central Pollution Control Board,
North Eastern Zonal Office, Shillong - 793014
 3. Member Secretary
Pollution Control Board, Assam
 4. Executive Engineer, Regional Office
Assam State Pollution Control Board, Assam
 5. SEIAA, Ministry of Environment, Forest and Climate Change
Bamunimaidam, Guwahati -781021, Assam

STAR CEMENT LIMITED
(Guwahati Grinding Unit)

Gopinath Bordoloi Road, Village - Chamata Pathar, PO Sonarpur, District - Kamrup (Mrtro), Pin - 782 402, Assam, Ph No. +91 8011002579, e-mail: ggu@starcement.co.in

Regd. Office & Works : Lumshong Dist - East Jaintia Hills, Meghalaya - 793 210, Ph: 03855-278215/16/18, Fax: 03655-278217, e-mail: umshnong@starcement.co.in

Corporate Office : Century House, P 15/1 Taratala Road, CPT Colony, 2nd Floor, Kolkata - 700 088 e-mail: kolkata@starcement.co.in

AN ISO 9001:2008, ISO 14001:2015, ISO 45001:2018. CERTIFIED COMPANY

CIN No. L26942ML2001PLC006663

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Pollution Control Board, Assam
Bamunimaidam, Guwahati-2



SL No.	Conditions	Compliance Status (Up to 31 st March, 2025)
A. SPECIFIC CONDITIONS		
I	Necessary other statutory clearances from other concerned Departments including 'No Objection Certificate' (NOC) from the Assam State Pollution Control Board (ASPCB) shall be obtained prior to commencement of construction and /or operation.	<p>'No Objection Certificate' (NOC) from the Assam State Pollution Control Board (ASPCB) received vide Ref No: WB/GUW/T-1418/09-10/52/248 Dt: 03.07.2009.</p> <p>Further 'consent to Operate' for Plant for the year 2022-27 was renewed vide ref. No. TECH-12011(11)/12/2024-CCA-PCBA dated 2nd January, 2025</p> <p>& 'Consent to Operate' for Railway Siding for the year 2022-27 was renewed vide ref. No. WB/GUW/T-4260/21-22/75/346 dated: 24.05.2022.</p> <p>Copy of Consent to Operate for Plant is enclosed as Annexure-I. & Copy of Consent to Operate for Railway Siding is enclosed as Annexure-I A.</p>
ii	The stack emissions from various sources including cement mill and captive power plant (CPP) shall not exceed 50 mg/Nm ³ by installing bag filters. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the ASPCB. At no time, particulate emissions from the grinding unit shall exceed 50mg/Nm ³ . Continuous on-line monitors for particulate emissions shall be installed in stacks. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	<p>We have installed bag house to control Particulate Matter and opacity Meter for online monitoring for particulate Matter (PM) in the stack of Cement mill and Coal mill; PM is maintained within 30 mg/Nm³. The online data of stack monitoring is being uploaded to CPCB web portal through suitable modem.</p> <p>Data of Ambient air quality, fugitive emissions and stack emissions and ambient noise level monitoring are being submitted to the MoEF, Regional Office at Shillong, ASPCB & CPCB regularly.</p> <p>Interlocking facility has been provided to all the Bag House and pulse jet bag filters.</p> <p>The online data of stack monitoring is being uploaded to CPCB web portal and in process for ASPCB through suitable modem. The URL is http://glens.glensserver.com/</p> <p>Stack monitoring data and Ambient air are attached as Annexure-II A & II B respectively.</p>

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Iii	Cement grinding shall be carried out in closed clinker and will have a highly efficient bag filters. Electrostatic precipitator (ESP) to AFBC boiler of CPP and bag filters to coal mill shall be provided to restrict the particulate matter below 30 mg/Nm ³ .	High efficient Polytetrafluoroethylene (PTFE) membrane jet bag filters are installed to control the particulate matter below 30 mg/Nm ³ . Power plant has not been established till date and power supply is from Assam State Electricity Board.
Iv	Ambient air quality monitoring stations (AAQMS) shall be set up as per statutory requirement in consultation with the ASPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with ASPCB and must not exceed the standards stipulated under EPA or by the State Authorities. Monitoring reports for ambient air, stack and fugitive emissions and ambient noise level monitoring shall be submitted to the Ministry's Regional Office at Shillong half-yearly and Central Pollution Control Board (CPCB) and ASPCB monthly and half-yearly. The instruments used for ambient air quality monitoring shall be calibrated time to time.	Ambient air quality monitoring stations (AAQMS) were already established in consultation with Assam State Pollution Control Board (ASPCB). Ambient Noise levels were recorded at various locations in the plant premises. Ambient air quality and ambient noise levels are found within standards stipulated under EPA/MoEF & CC/CPCB/SPCB. The AAQ monitoring reports are enclosed for reference in Annexure-II as II A - Stack Monitoring Report II B - AAQ monitoring Report II C - Ambient Noise Level Monitoring Report II D - Fugitive Emission Analysis Report II E - Water Analysis Report Requisite copies of the monthly and half-yearly monitoring reports for ambient air quality, stack & fugitive emissions and noise level monitoring are being submitted to MoEF & CC Regional Office at Shillong, Central Pollution Control Board (CPCB) and Assam State Pollution Control Board (ASPCB). The instruments used for ambient air quality are being calibrated time to time and the latest calibration certificates are enclosed as Annexure-II F
V	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at loading /unloading points and all the transfer points. Adequate pollution control system shall be provided to raw mill, cement mill and rotary kiln along with stacks of adequate height as per CPCB guidelines to control fugitive emissions. Fugitive dust emissions from all the sources including storage areas shall be collected in bag filters and recycled back to the process. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw	The company is using water tankers for water sprinkling at loading & unloading points and all transfer points to control fugitive emissions. Adequate Air pollution control equipment such as pulse jet bag filters are attached to stacks of cement mill and packing plants. Stacks of adequate height are maintained as per CPCB guidelines for proper dispersion of particulate matter. The generated dust being collected from all sources and recycled back to process. The raw materials viz. Clinker, fly ash and gypsum are stored in covered sheds.

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	material stock yard and cement bag loading areas.	<p>Finished products are stored in silos.</p> <p>Water tankers are deployed for water sprinkling at all the raw material stock yard and cement loading areas.</p> <p>Photographs are attached as Annexure-III A.</p> <p>Road sweeper Machine is used for cleaning dust at all loading and unloading areas in the plant.</p> <p>Photographs are attached as Annexure-III B.</p>
Vi	Total ground water requirement for the cement plant shall not exceed 1,900 m ³ /day. Effluent Treatment Plant (ETP) shall be provided for treatment of liquid effluent. Industrial effluent from CPP shall be treated and utilized for dust suppression, cooling and green belt development. Blow down water shall be treated in neutralizing pit. No liquid effluent shall be discharged from the process outside the premises and all the treated wastewater shall be utilized for green belt development and other plant related activities. 'Zero' effluent discharge shall be maintained. Sewage effluent will be treated in sewage treatment plant (STP).	<ul style="list-style-type: none"> • The present use of water is 444 m³/day for plant operations. • The plant is designed on Zero effluent discharge concept. This concept is being implemented as there is no industrial effluent generated from the process. • No Captive Power Plant (CPP) was established. • The domestic wastewater generated from the plant is being treated in sewage treatment plant (STP). • No wastewater is discharged outside the plant premises. • The treated wastewater is being utilized for green belt development and dust suppression. The STP sludge is used as manure for green belt development.
Vii	'Permission' for the drawl of 1,758 m ³ /day ground water shall be obtained from State Ground Water Board /Central Ground Water Authority (SGWB/CGWA) and a copy submitted to the Ministry's Regional Office at Shillong within 3 months of issue of environmental clearance letter.	<p>Water drawl permission from CGWA for grinding unit has already obtained vide letter No.21-4(21)/NER/CGWA/2009-50 dated 29.06.2009.</p> <p>NOC Renewal Letter received from CGWA Ref No-CGWA/NOC/IND/REN/2/2022/7353</p>
Viii	Solid waste viz. fly ash from the captive power plant and dust etc. generated shall be properly recycled and reutilized in the cement plant itself. No solid waste shall be discharged from the grinding unit. Bed ash shall be used as bed material and /or disposed off in environment-friendly manner. Treated domestic sludge shall be used as manure for green belt development. Solid waste from sewage treatment plant (STP) shall be utilized as manure for green belt. Used transformer oil/spent oil shall be sold to authorized recyclers/re-processors.	<p>10 MW captive power plant was not established in Cement Grinding Unit. Power supply is from Assam State Electricity Board (ASEB). Hence fly ash is not generated in the Guwahati Grinding Unit.</p> <p>All the bag filters dust, clinker dust and cement dust are recycled and reused in the process. STP sludge is used as manure for horticulture/ green belt. The used transformer oil & spent oil is being sold to authorized recyclers.</p>

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Ix	The fly ash utilization shall be as per the provisions stipulated in the Fly Ash Notification of September, 1999 and as amended in August, 2003.	No Fly Ash has been generated as the Captive power plant was not established in the plant.
x	As proposed, green belt shall be developed in 6 ha (33%) out of total 18 ha. Area to mitigate the impact of fugitive emissions in and around the expansion project as per the CPCB guidelines in Consultation with the local DFO.	The green belt has been developed in phased manner. At present 1,33,989 trees have been covered in 33% of plant area. Local species are selected in consultation with DFO and plantation is being maintained. Details of green belt development are enclosed as Annexure-IV.
xi	All the recommendations mentioned in the Corporate Responsibility of Environmental Protection (CREP) shall be strictly followed.	All the CREP recommendations are being followed. The details are provided in Annexure-V.
xii	Permission from the State Forest Department regarding the impact of the proposed plant on the East Africola RF(9 km), West Africola RF (9 km) and Marakdola RF (7 km) located within 10 km radius of the proposed project site.	Based on the site inspection report by Divisional Forest Office, Kamrup East Division, Guwahati indicating that "there will not be any impact of the grinding unit on East Africola, West Africola and Marakdola Reserve Forests" Letter no. FGT.58/Misc/Govt. Permit/07 dated. 28.04.09 from the Chief Conservator of Forests (T), Guwahati addressed to the Commissioner & Secretary, Environment & Forest Department, Government of Assam, along with report from Divisional Forest Officer, Kamrup East Division has been submitted for issue of NOC.
xiii	Rainwater harvesting measures shall be adopted. The company must also harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Rain water harvesting measures have been undertaken. Total 13 no's of Rain water recharge pits were constructed in the plant premises. Photographs are attached as Annexure-VI.
xiv	The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The necessary infrastructures were already provided during construction of the project.

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B. GENERAL CONDITION

i	The project authority must adhere to the stipulations made by Assam State Pollution Control Board and State Government.	The stipulations of Assam State Pollution Control Board (ASPCB) and State Government are being complied.
ii	For further expansion or modification of the plant should be carried out without prior approval of this Ministry.	Prior approvals will be obtained from MOEF & CC if any, further expansion or modification of the plant.
iii	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the ASPCB. Data on ambient air quality and stack emissions and Ambient Noise level monitoring should be regularly submitted to this Ministry including its Regional Office at Shillong once in six months.	The ambient air quality monitoring stations were established in consultation with the ASPCB at four location in the plant where the maximum ground level concentration of particulate matter are anticipated. The gaseous emissions of SO ₂ and NO _x will not be generated from the stacks of the grinding unit. However, in ambient air PM ₁₀ , PM _{2.5} along with SO ₂ & NO _x are being monitored regularly in order to maintain Ambient Air Quality. The six months data of ambient air quality and stack emissions are regularly submitted to MoEF Regional office, Shillong. Monthly ambient air quality monitoring reports are enclosed as Annexure-II B .
iv	Industrial wastewater should 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 wastewater should be utilized for plantation purpose.	There is no discharge of industrial effluent from the grinding unit. However, domestic wastewater is being treated in sewage treatment plant (STP). The treated wastewater is being utilized for green belt development and dust suppression. The sludge obtained from STP has been utilized for greenbelt development.
v	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 should conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75dBA (day time) and 70 dBA (night time).	The Ambient noise levels <75 dB (A) are maintained below Standards prescribed by APCB/CPCB/MoEFCC. Monthly monitored Noise levels are enclosed as Annexure-II C .

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vi	Proper housekeeping and adequate occupational health programmes must be taken up. All the persons working in the sensitive areas shall wear protective covers. Occupational Health Surveillance programme shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.	<ul style="list-style-type: none"> Mechanical sweeping machine has been deployed in plant area. Daily manual sweeping is also carried out. Dust bins have been provided at various locations. The personal working in the dust/noise prone areas have been provided with personal protective equipment (PPE) such as helmets, safety glasses, industrial grade gloves, safety harnesses, gum boots, nose masks and earmuffs. Occupational Health Surveillance Programme is being conducted for the workers by a qualified doctor along with the medical staff. The medical staff has been appointed for regular health checkup of the workers. Periodic Medical Examination is being done on a regular basis and records are being maintained in the plant. The examination and tests are being carried out, as per norms, have been duly recorded in the Health Register for ready reference.
vii	The company shall undertake eco-development measures including community welfare measures in the project area.	The company complies with all the eco-development measures including community development activities in the project area.
viii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA /EMP.	The company is complying with all the environmental protective measures & safeguards as per guidelines of State Pollution Control Board, Central Pollution Control Board & Ministry of Environment, Forest & Climate Change.
ix	A separate Environmental Management Cell with full-fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of Senior Executive.	The company has setup a separate environmental management cell under the control of a Senior Executive with an adequate laboratory facilities to carryout various management & monitoring functions.

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x	As proposed in the EIA /EMP, Rs. 160.00 lakhs and Rs. 10.00 lakhs earmarked towards capital cost and recurring cost / annum for environmental pollution control measures shall be judiciously utilized for the implementation of conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purposes.	Funds have been earmarked for Environmental pollution control. The fund is being used for environmental protection measures only and is not diverted for any other purpose.
xi	The Regional Office of this Ministry at Shillong /Central Pollution Control Board / Assam State Pollution Control Board shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	The company has been submitting six monthly compliance report and monitored data along with statistical interpretation to MoEF & CC, Regional office at Shillong, Central pollution Control Board and Assam State pollution Control Board.
xii	The 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.	The company has already informed to the Ministry the date of financial closure and final approval of the project on Date: 24.09.2009.
xiii	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Assam State Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that the 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.	The company has informed the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Assam State Pollution Control Board / Committee on Dt: 24.09.2009. The Environmental Clearance information published in two local newspapers one in English and other is in Assamese. The EC displayed on website at http://starcement.co.in

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ANNEXURE-I

Consent to Operate-Plant



Pollution Control Board, Assam

(Department of Environment & Forests, Government of Assam)

অসম প্রদূষণ নিয়ন্ত্রণ পরিষদ

(অসম চৰকাৰৰ বন আৰু পৰিবেশ বিভাগ)

NABL Accredited Testing Laboratory : Certificate No. TC-11384



No. TECH-12011(11)/12-2024-CCA-PCBA

Dated Guwahati, the 2nd January, 2025

Consolidated Consent and Authorization (CCA)

To,

M/s. Star Cement Limited
Gopinath Bordoloi Road, Chamta Pathar
P.O- Sonapur, Kamrup (M), Assam-782402.

Sub: Consolidated Consent and Authorization (CCA) granted under provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 and the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 framed under the Environment (Protection) Act, 1986.

CONSENT TO OPERATE

In suppression of 'CONSENT TO OPERATE' (CTO) issued vide No.WB/GUW-T-1418/Pt-I/15-16-419/2844 dtd. 31st March 2022, Consolidated Consent and Authorization (CCA) is hereby granted under provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 and the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 framed under the Environment (Protection) Act, 1986 in favor of M/s. Star Cement Limited, as herein under:

- | | | |
|---|---|--|
| i) Name of the Unit | : | M/s. Star Cement Limited |
| ii) Name of the Applicant and Designation | : | Sri Sandip Samanta, Asst. Vice President |
| iii) Address of the Unit: | : | Gopinath Bordoloi Road, Chamata Pathar P.O- Sonapur, Kamrup (M), Assam-782402. |
| iv) Cost of the Unit: | : | Rs. 24879.0 Lakhs |
| v) Type of the Unit: | : | Cement Grinding Unit
(Red Category) |
| vi) Details of Products: | | |

Sl No.	Product	Quantity/ Capacity
1	Portland Pozzolana Cement (PPC)	1700000 MTPA
2	Ordinary Portland Cement (OPC)	400000 MTPA

- vii) DG set : 1 x 1500 KVA

General Conditions:

1. This Consent to Operate (CTO) has been accorded based on the particulars furnished by the applicant vide CCA Application **ID3118964** and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice;
2. The CTO will be valid till **31.03.2027**.
3. This CTO may be modified, suspended or withdrawn by the Board in whole or in part during its term for cause including, but not limited to the following:-
 - (a) Violation of any Terms and Conditions of this CTO;

- (b) Obtaining the CTO by misrepresentation or failure to disclose fully all relevant facts;
- (c) If any genuine complaint received;
4. The unit shall apply for its renewal at least ninety (90) days before expiry of the validity of this CTO.
5. The general and specific conditions of Environmental Clearance issued by the MoEF & CC, GOI, Assam Vide F. No.J-11011 733-2008-IA II (I) dtd.02.01.2009 shall be complied with.
6. **The directives of the Board vide F. No. WB/GUW/T1418/Pt-I/15-16/561/1474 dtd.27.09.2024, as mandated while processing for "No Increase in Pollution Load" certificate by this Board, shall be complied with.**
7. The unit shall install a Display Board as per the Boards notification no. PCBA.LGL-95/2021 Notification/01 dtd.11.11.2021 (**Appendix-A**)
8. Proper housekeeping shall be maintained. Burning of any solid waste inside the premises is prohibited.
9. The unit shall develop a greenbelt plantation area with native trees only at least 33% of the total plot area.
10. The unit shall comply with all the environment protection measures and safeguards recommended in the EIA EMP.
11. Environmental Statement in prescribed Form-V should be submitted on or before the 30th September every year.

Specific Conditions:

A) Air Aspect:

1. Source of Air Pollution and Control Device details.

Sl No.	Unit	Capacity	APC Device	Chimney Height
1	Cement Mill	260 MT/hr	Bag Filter	62 M
2	Coal Mill	5 MT/hr		40.55 M
3	Clinker Stock Pile(CSP)	15000 MT		NA

2. The unit shall install the following pollution control measures for control of source and fugitive emission:
 - a. Dust containment cum suppression system at Raw Material Feed Hoppers, all the material transfer and dropping points.
 - b. Construction of the metallic roads within the premises.
 - c. Regular cleaning and water sprinkling at the ground and in the haul roads.
3. The unit shall install Mist Canon for Dust suppression at the Raw material handling section, Clinker handling section, in front of main entrance and exit, other fugitive dust generating points to reduce fugitive dust emission.
3. Location of sampling port shall be provided as specified in CPCB guidelines for Emission Regulations (December 1985), Part-III (Appendix-B)
4. The unit shall comply with the standards and guidelines for control of noise pollution from stationary Diesel Generator (DG) set, notified by the MoEF & CC, Govt. of India vide, GSR 7, dated Dec.22, 1998 (Appendix-C)
5. The unit shall comply with the specific emission standards, notified by the MoEF & CC, Govt. of India, vide GSR. 612 (E) dated 25th August, 2014, as applicable for all its chimney emission (Part-A of Appendix-D)

6. The unit shall comply with noise level standard, notified by the MoEF & CC, Govt. of India vide, GSR 7, dated Dec.22, 1998, as mentioned herein under-

Limit in dB (A) Leq	
Day Time (6:00am-9:00pm)	Night Time (9:00pm-6:00am)
75	70

7. The unit shall comply to the National Ambient Air Quality Standards, **notified by the MoEF & CC, GOI, vide GSR 826(E) dtd.16.11.2009**, especially with respect to SO₂, NO₂, PM_{2.5} and PM₁₀, as mentioned herein under-

Sl. No.	Pollutants(µg/m ³)	Time Weighted average	Concentration in Ambient Air (Industrial, Residential, Rural Areas) µg/m ³
1	SO ₂	Annual 24 hours	50 80
2	NO ₂	Annual 24 hours	40 80
3	PM ₁₀	Annual 24 hours	60 100
4	PM _{2.5}	Annual 24 hours	40 60

8. On-line Continuous Emission Monitoring System (OCEMS) for Particulate Matter (PM), emission shall be properly maintained and **OCMMS RT-DAS** data should be regularly transmitted to **Pollution Control Board, Assam** and Central Pollution Control Board.

B) Water Aspect:

1. Details of source of water, consumption of water, effluent generation etc.

a) Water consumption	: 444 KLD
b) Effluent generation	: 51 KLD
c) Capacity of STP	: 150 KLD
d) Permission of CGWA	: Obtained.

2. For discharge of treated water, the unit shall comply with specific standards, **notified by the MoEF & CC, Govt. of India, vide GSR.612(E) dated 25th August, 2014 (Part-B of Appendix-D)**

3. The unit shall try to achieve 'Zero Liquid Discharge' condition.

4. i) Storm water shall not be allowed to mix with effluent and/or floor washing.

- ii) Storm water within the battery limits shall be channelized through separate drain/pipe passing through a HDPE lined pit having holding capacity of 10 minutes (hourly average) of rainfall.

5. A properly designed rain water harvesting pond shall be constructed to collect the entire run-off water, generated in the premises, as assured during the EIA/EMP presentation before SEAC meeting. Proper planning shall be made to use water from the pond for dust suppression in haul roads and other purposes like watering in plantations, etc.

7. Domestic Wastewater generated from the factory and colony shall have to be treated in a Sewage Treatment Plant. This treated water shall be utilized in greenbelt development/spraying around the plant and colony.

C) E-Waste Aspects:

The unit shall comply with the provisions of the E-Waste (Management) Rules, 2022.

D) Plastic Waste Aspect:

1. The unit shall apply for 'Registration' through the online centralized portal developed by CPCB (<https://www.cpcbepplastic.in>) immediately.
2. The Unit shall implement EPR (Extended Producers Responsibility) and fulfill the EPR target as per the guidelines.
3. Plastic Waste generated in the unit shall be quantified and disposed of in accordance of the provisions under the Plastic Waste Management Rules, 2016.
4. The unit shall submit the Annual return under the Plastic Waste Management Rules, 2016 within 30th June every year.

E) Solid Waste Aspect:

1. Adequate facility shall be created for collection, storage, transportation, treatment and disposal of non-hazardous solid waste generated from the unit.
2. Adequate system shall be adopted on reduction of waste generation and enhancement of re-utilization and recycling of waste materials.
3. Solid waste generated in the unit shall be disposed of as per the provisions of the Solid Waste Management Rules, 2016.

11) Authorization under the Provision of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

In suppression of Authorization issued vide No.WB/T-311/21-22/401/343 dtd.02nd November 2022, an Authorization under the Provision of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016as amended, is hereby granted to M.s. Star Cement Limited, as herein under.

- 1 Reference of application (No.) : 3118964
- 2 M.s. Star Cement Limited, Gopinath Bordoloi Road, Chamta Pathar P.O- Sonapur, Kamrup (M), Assam-782402is hereby granted the Authorization for Generation, Storage and Disposal of the following Hazardous and Other wastes:

DETAILS OF AUTHORIZATION

Sl. No.	Category of Hazardous Waste as per the Schedules-I, III& IV of these rules	Mode of Management/Disposal	Quantity
1	Schedule-I, Sl.No.5.1: Used or spent oil	Generation, Storage and disposal to registered recyclers	6 KL/annum
2	Schedule-I, Sl.No.5.2: Wastes or residues containing oil	Generation, Storage and disposal to registered recyclers	0.2 MT/annum
3	Schedule-IV, Sl.No.B3010:Solid Plastic Wastes	Generation, Storage and disposal to registered recyclers	2365 MT/annum
4	Schedule-I, Sl.No.35.1:Exhaust Air or Gas Cleaning residue	Generation, Storage and disposal to registered recyclers	10 MT/annum
5	Schedule-III, Part-A Sl.No.A1160:Waste Lead Acid Batteries, whole or crushed	Generation, Storage and disposal to registered recyclers	200 Nos./annum

3. This Authorization shall be in force till 31.03.2027. The Authorization is subject to the following general and specific conditions:

A. GENERAL CONDITIONS OF AUTHORIZATION:

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The Authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this Authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty.
7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of the Authorization shall be made as laid down under these Rules.
9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
10. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
11. **The unit shall register on the 'National Hazardous Waste Tracking System' by logging in to the online portal (<https://geo.nic/nhwts>)**

B. SPECIFIC CONDITIONS:

1. The unit shall maintain the records of Hazardous & Other Wastes in Form-3 under provision of Rules 6(5), 13(7), 14(6), 16(5) & 20(1).
2. The Transporter shall obtain the relevant information in Form-9 from the occupier/generator regarding the hazardous nature of the wastes and measures to be taken in case of an emergency
3. The unit shall submit Annual Returns in Form-4 to this Board by 30th June of every year for the preceding period April to March.
4. The occupier shall prepare 6 (six) copies of the manifest in Form-10 as per Rules-19(1) for every transit of consignment of hazardous waste under this authorization & the transporter/collector should ensure implementation of the manifest system.
5. Any other conditions for compliance as per the guidelines issued by the Ministry of Environment, Forests & Climate Change, GOI. New-Delhi and Central Pollution Control Board, Delhi shall be complied.
6. Any occupier handling hazardous or other wastes and operator of the treatment, storage and disposal facility shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time. The labelling shall be done as per Form 8.
7. The unit shall submit the report on any accident occurs at their facility immediately to this Board, in Form-11 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
8. The transport of the hazardous and other waste shall be in accordance with the provisions of Rule 18 of Hazardous and Other waste (Management and Transboundary Movement) Rules, 2016.

9. The unit shall construct install impervious lining in the Waste storage area and prevent any possible seepage into the surrounding environment.
10. A display Board shall be installed at the entry gate in accordance with the Boards notification no. PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021.
11. The unit shall ensure submission of manifests to the Board.

The unit shall submit compliance report of the mandated conditions by April, 15 every year to Member Secretary, PCBA as well as to Regional Office, Guwahati, PCBA. The Board shall have the liberty to withdraw the CCA if adequate pollution control and safety measures are not implemented by the unit.

Signed by
Shantanu Kumar Dutta
Date: 02-01-2025 16:44:52

Member Secretary

Memo No. TECH-12011(11)-12/2024-CCA-PCBA

Dated Guwahati, the 2nd January, 2025

Copy to:

M/s. Star Cement Limited, Gopinath Bordoloi Road, Chamata Pathar P.O- Sonapur, Kamrup
(M), Assam-782402, Assam for information and compliance of conditions.

(Digitally signed)
Member Secretary

ANNEXURE-IA

Consent to Operate-Railway Siding



Pollution Control Board: Assam
Bamunimaidam; Guwahati-21

(Department of Environment & Forests: Government of Assam)

Phone: 0361-2652774 & 2550258; Fax: 0361-2550259

Website: www.pcbassam.org

No. WB/GUW/T-4260/21-22/75

Dated Guwahati, the 24th May, 2022

"CONSENT TO OPERATE"

"CONSENT TO OPERATE" under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, as amended to-

- i) Name of Industry : **M/s. Star Cement Ltd. (Railway Siding)**
- ii) Name of the Occupier / Applicant and Designation : **Sri Mukesh Saxena, Factory Manager**
- iii) Address of the unit: : **Gopinath Bordoloi Road, Chamta Pathar P.O- Sonapur, Kamrup (M), Assam- 782402**
- iv) Cost of the project: : **Rs. 3892.00 Lakhs**
- v) Type of the project: : **Railway Sidings (Orange Category)**
- vii) **Details of Project:**

Sl No.	Service
1	Railway Sidings for unloading, stocking and handling of Fly Ash, Gypsum, Coal, etc.

General Conditions:

1. This Consent to Operate (CTO) has been accorded based on the particulars furnished by the applicant vide Application **ID 970247** and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice;
2. The Consent to Operate is valid for a period up to **31.03.2027**.
3. This Consent may be modified, suspended or withdrawn by the Board in whole or in part during its term for cause including, but not limited to the following:-
 - (a) Violation of any Terms and Conditions of this Consent;
 - (b) Obtaining the Consent by misrepresentation or failure to disclose fully all relevant facts;
 - (c) If any genuine complaint received;
4. **The project authority should install a Display Board as per the Boards notification no.PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021 (Appendix-A)**
5. All the internal roads shall be made metallic.
6. Proper housekeeping shall be maintained. **Burning of any waste inside the premises is prohibited.**
7. The project proponent must develop a greenbelt/plantation area with native trees only at least 33% of the total plot area to develop Green Belt and Carbon Sink.

MSB

Contd....P/2

8. Permission of the Central Ground Water Authority shall be obtained for extraction of Ground Water, if applicable.
9. Water sprinklers shall be installed along the haul roads for control of fugitive emissions. is to be done in side factory campus to suppress the dust.
10. The unit shall have to apply for its renewal ninety (90) days before expiry of the validity of this CTO

Specific Conditions:

A) Air Aspect:-

1. Details of Mist Canon-
 - a) Number of Mist Canon- 6 Numbers
 - b) Water consumption in Mist Canon- 70 liters/hr (Each)
2. The industry shall comply to the National Ambient Air Quality Standards, **notified by the MoEF & CC, GOI, vide GSR 826(E) dtd.16.11.2009**, especially with respect to PM_{2.5} and PM₁₀, as mentioned herein under-

Sl. No.	Pollutants	Time Weighted average	Concentration in Ambient Air (Industrial, Residential, Rural Areas) $\mu\text{g}/\text{m}^3$
1.	PM10 ($\mu\text{g}/\text{m}^3$)	Annual 24 hours	60 100
2.	PM2.5 ($\mu\text{g}/\text{m}^3$)	Annual 24 hours	40 60

3. Appropriate dust suppression measures shall be adopted to reduce fugitive emission at all the materials transfer and dropping points.
4. Vehicle wheel washing system shall be installed at entry and exit point of the Siding.

B) Water Aspect:

1. Surface runoff generated from the siding shall have to be treated properly. This treated water shall be utilized in greenbelt development/spraying around the plant and colony.
2. The treated surface runoff water of the unit shall comply with general discharge standards, notified by the **MoEF & CC, Govt. of India, vide GSR.422(E) dated.19.05.1993 (Appendix-B)**
3. Storm water shall not be allowed to mix with effluent and/or floor washing.
4. Storm water within the battery limits shall be channelized through separate drain/pipe passing through a HDPE lined pit having holding capacity of 10 minutes (hourly average) of rainfall.
5. Adequate covered storage sheds for fly-ash shall have to be provided to prevent leachate and runoff from the storage yard;

D) Plastic Waste Aspect:

1. Plastic Waste generated in the unit shall be quantified and disposed of in accordance of the provisions under Plastic Waste Management Rules, 2016. A report shall be submitted by the unit regarding generation and management of plastic wastes in June every year.

E) Solid Waste Aspect-

1. Adequate facility should be created for collection, storage, transportation, treatment & disposal of industrial solid waste generated from the Industry.

2. Adequate system should be adopted on reduction of waste generation and enhancement of re-utilization & recycling of waste materials.
3. Solid waste generated in the unit shall be disposed of as per the provisions of the Solid Waste Management Rules, 2016.

The unit shall submit compliance report of the mandated conditions by April, 15, every year to Member Secretary, PCBA as well as to Regional Office, Guwahati, PCBA. The Board will have the liberty to withdraw the CTO if adequate pollution control and safety measures are not taken and the mandated conditions are not complied with.

//
(Shantanu Kr. Dutta)
Member Secretary

Memo No. WB/GUW/T-4260/21-22/75-A,

Dated Guwahati, the 24th May, 2022

Copy to: -

346
✓ M/s Star Cement Ltd. (Railway Siding), P.O. Gopinath Bordoloi Road, Chamta Pathar
P.O- Sonapur, Kamrup (M), Assam-782402 for information & compliance of conditions.

Shantanu Kr. Dutta
(Shantanu Kr. Dutta)
Member Secretary

ANNEXURE-IIA

Stack Monitoring Report

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_853

SAMPLE ID: EETNE/SEPT/01/24

Date: 21/10/2024

ULR NO.:TC766924000000208F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
 Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
 Dist:Kamrup(M),Assam.

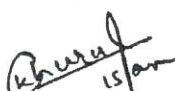
Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : 16/10/2024 TO 21/10/2024
 Sampling Instrument Used : STACK SAMPLER/STACK KIT
 Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	16/10/2024	Stack attached DG Set-1500 KVA	67.7	- DG set is with acoustic enclosure.


Method of analysis: IS 11255 Part-I

Emission Standards :

Parameter	Standards
Particulate matter	75mg/Nm ³


 Khairul Islam Sheikh
 (Environmental Chemist)

For Envision Enviro Technologies North East Guwahati


 Utpal Bezbaruah
 (Technical Manager)
 Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
 ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_852

SAMPLE ID: EETNE/OCT/01/24

Date: 21/10/2024

ULR NO.:TC766924000000208F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.


Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 17/10/2024 TO 21/10/2024
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	17/10/2024	Stack attached to CEMENT MILL	26.9	- Bag filter is attached to Cement mill. - 50% bag house is replaced to mitigate the effect of particulate matter.
ii)		Stack attached to COAL MILL	29.3	

Method of analysis: IS 11255 Part-I

Emission Standards :

Category of Industry	Parameter	Standards
Cement	Particulate matter	30mg/Nm ³


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_940
SAMPLE ID: EETNE/NOV/19/24

Date: 12/11/2024
ULR NO.:TC766924000000230F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

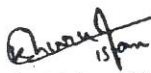
Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 07/11/2024 TO 12/11/2024
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	07/11/2024	Stack attached DG Set-1500 KVA	64.9	- DG set is with acoustic enclosure.


Method of analysis: IS 11255 Part-I

Emission Standards :

Parameter	Standards
Particulate matter	75mg/Nm ³


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed-by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_939

SAMPLE ID: EETNE/NOV/19/24

Date: 12/11/2024

ULR NO.:TC766924000000230F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 08/11/2024 TO 12/11/2024
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	08/11/2024	Stack attached to CEMENT MILL	27.6	- Bag filter is attached to Cement mill. - 50% bag house is replaced to mitigate the effect of particulate matter.
ii)		Stack attached to COAL MILL	28.1	

Method of analysis: IS 11255 Part-I

Emission Standards :

Category of Industry	Parameter	Standards
Cement	Particulate matter	30mg/Nm ³

For Envision Enviro Technologies North East, Guwahati


Khairul Islam Sheikh
(Environmental Chemist)


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_970

SAMPLE ID: EETNE/DEC/05/24

Date: 14/12/2024

ULR NO.:TC766924000000237F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.


Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 09/12/2024 TO 14/12/2024
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	09/12/2024	Stack attached DG Set-1500 KVA	66.3	- DG set is with acoustic enclosure.


Method of analysis: IS 11255 Part-I

Emission Standards :

Parameter	Standards
Particulate matter	75mg/Nm ³


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_969
SAMPLE ID: EETNE/DEC/05/24

Date: 14/12/2024
ULR NO.:TC766924000000237F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.


Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 10/12/2024 TO 14/12/2024
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS Particulate Matter (mg/Nm ³)	REMARKS
i)	10/12/2024	Stack attached to CEMENT MILL	24.8	- Bag filter is attached to Cement mill. - 50% bag house is replaced to mitigate the effect of particulate matter.
ii)		Stack attached to COAL MILL	26.5	

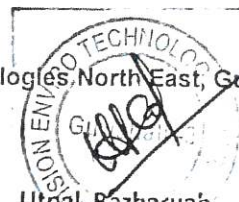
Method of analysis: IS 11255 Part-I

Emission Standards :

Category of Industry	Parameter	Standards
Cement	Particulate matter	30ng/Nm ³


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

TC-7669

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_1041

SAMPLE ID: EETNE/JAN/11/25

Date: 31/01/2025

ULR NO.:TC766925000000256F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

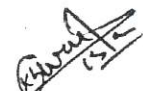
Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 27/01/2025 TO 31/01/2025
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	27/01/2025	Stack attached DG Set-1500 KVA	61.6	- DG set is with acoustic enclosure.


Method of analysis: IS 11255 Part-I

Emission Standards :

Parameter	Standards
Particulate matter	75mg/Nm ³


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

TC-7669

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_1040
SAMPLE ID: EETNE/JAN/11/25

Date: 31/01/2025
ULR NO.:TC766925000000256F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 28/01/2025 TO 31/01/2025
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS Particulate Matter (mg/Nm ³)	REMARKS
i)	28/01/2025	Stack attached to CEMENT MILL	27.3	- Bag filter is attached to Cement mill. - 50% bag house is replaced to mitigate the effect of particulate matter.
ii)		Stack attached to COAL MILL	28.9	


Method of analysis: IS 11255 Part-I

Emission Standards :

Category of Industry	Parameter	Standards
Cement	Particulate matter	30mg/Nm ³


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_1062
SAMPLE ID: EETNE/FEB/04/25

Date: 22/02/2025
ULR NO.:TC766925000000261F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 17/02/2025 TO 22/02/2025
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO
Sample Description : Thimble


SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	- DG set is with acoustic enclosure.
i)	17/02/2025	Stack attached DG Set- 1500 KVA	64.8	

Method of analysis: IS 11255(Part3) : 2008

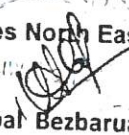
Emission Standards :

Parameter	Standards
Particulate matter	75mg/Nm ³

- Note i) The results relate to the tested sample only.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.


Khairul Islam Sheikh
(Environmental Chemist)
Prepared & Checked by

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized Signatory /Reviewed by

-----END OF REPORT-----



TC-7669

Recognized by Pollution Control Board, Assam

TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_14030224_07_1061
SAMPLE ID: EETNE/FEB/04/25

Date: 22/02/2025
ULR NO.:TC766925000000261F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 18/02/2025 TO 22/02/2025
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO
Sample Description : Thimble

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
i)	18/02/2025	Stack attached to CEMENT MILL	Particulate Matter (mg/Nm ³) 29.8	- Bag filter is attached to Cement mill. - 50% bag house is replaced to mitigate the effect of particulate matter.
ii)		Stack attached to COAL MILL	27.6	

Method of analysis: IS 11255(Part3) : 2008

Emission Standards :

Category of Industry	Parameter	Standards
Cement	Particulate matter	30mg/Nm ³

Note: i) The results relate to the tested sample only.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

Khairul Islam Sheikh
Khairul Islam Sheikh
(Environmental Chemist)
Prepared & Checked by

For Enviro Technologies North East, Guwahati

Utpal Bezbaruah
Utpal Bezbaruah
(Technical Manager)
Authorized Signatory/Reviewed by

-----END OF REPORT-----



TC-7669

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TEST REPORT

STACK ANALYSIS REPORT
Rep No. SAR 14030224_07_1127
SAMPLE ID: EETNE/MAR/03/25

Date: 12/03/2025
ULR NO.: TC766925000000279F

Sampled to M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist: Kamrup (M), Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 05/03/2025 TO 12/03/2025
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO
Sample Description : Thimble

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
1)	05/03/2025	Stack attached DG Set- 1500 KVA	63.1	- DG set is with acoustic enclosure.

Method of analysis: IS 11255(Part3) : 2008

Emission Standards :

Parameter	Standards
Particulate matter	75mg/Nm ³

- Note: i) The results relate to the tested sample only.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East, Guwahati

Subasita Phukan
Subasita Phukan
(Environmental Chemist)
Prepared & Checked by

Utpal Bezbaruah
Utpal Bezbaruah
(Technical Manager)
Authorized Signatory / Reviewed by

-----END OF REPORT-----



TC-7869

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TEST REPORT**STACK ANALYSIS REPORT**

Rep.No. SAR_14030224_07_1126

SAMPLE ID: FETNE/MAR/03/25

Date: 12/03/2025

ULR NO.:TC766925000000279F

Issued to

M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 06/03/2025 TO 12/03/2025
Sampling Instrument Used : STACK SAMPLER/STACK KIT
Pollution Control Device, if any : YES/NO
Sample Description : Thimble

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	06/03/2025	Stack attached to CEMENT MILL	27.2	- Bag filter is attached to Cement mill. - 50% bag house is replaced to mitigate the effect of particulate matter.
ii)		Stack attached to COAL MILL	26.3	

Method of analysis: IS 11255(Part3) : 2008

Emission Standards :

Category of Industry	Parameter	Standards
Cement	Particulate matter	30mg/Nm ³

Note i) The results relate to the tested sample only.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East, Guwahati

Subasita Phukan
Subasita Phukan
(Environmental Chemist)
Prepared & Checked by

Utpal Bezbaruah
Utpal Bezbaruah
(Technical Manager)
Authorized Signatory/Reviewed by

-----END OF REPORT-----

ANNEXURE-IIB

AAQ Monitoring Report



TC-7669

Recognized by Pollution Control Board, Assam

NABL ACCREDITED

TEST REPORT**AMBIENT AIR ANALYSIS REPORT**

Rep.No. AAAR_14030224_07_849

SAMPLE ID: EETNE/OCT/01/24

Date: 21/10/2024

ULR NO.:TC766924000000208F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 17/10/2024 TO 21/10/2024
Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS			
				PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)
i)	16/10/2024	Near Main Gate	Clear	55.9	36.6	14.8	16.9
ii)		Near Cement Mill		59.6	34.9	29.1	17.2
iii)	17/10/2024	Near Electrical Substation		55.9	35.8	24.6	13.6
iv)		Near Truck Tippler		65.6	37.9	29.1	15.5

Remarks: - Parameters are within the permissible limit.

- Sampling were done under the annual based.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Test Method	Time Weighted Average	Concentration in Ambient Air Industrial, Residential, Rural and Other Area
1	Sulphur Dioxide (SO ₂), $\mu\text{g}/\text{m}^3$	IS:5182 Part-II/ CPCB	Annual 24 hours	50 80
2	Nitrogen Dioxide (NO ₂), $\mu\text{g}/\text{m}^3$	IS:5182 Part-VI/ CPCB	Annual 24 hours	40 80
3	Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	IS:5182 Part-XXIII/ CPCB	Annual 24 hours	60 100
4	Particulate Matter (PM _{2.5}), $\mu\text{g}/\text{m}^3$	EETNE/SOP/01/2017	Annual 24 hours	40 60

Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati

Utpal Bezbaruah
(Technical Manager)
Authorized/Reviewed by

Note: i) The results relate to the tested parameters & items sample.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Page 1 of 1

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TEST REPORT

AMBIENT AIR ANALYSIS REPORT

Rep.No. AAAR_14030224_07_936
SAMPLE ID: EETNE/NOV/19/24

Date: 12/11/2024
ULR NO.:TC766924000000230F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.


Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 08/11/2024 TO 12/11/2024
Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS			
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)
i)	07/11/2024	Near Main Gate	Clear	56.2	37.2	15.9	17.1
ii)		Near Cement Mill		58.1	33.1	30.1	15.9
iii)	08/11/2024	Near Electrical Substation		56.4	34.9	27.2	14.6
iv)		Near Truck Tippler		66.3	39.8	30.6	16.8

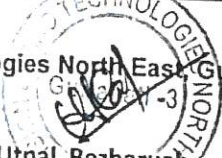
Remarks: - Parameters are within the permissible limit.
:- Sampling were done under the annual based.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Test Method	Time Weighted Average	Concentration in Ambient Air Industrial, Residential, Rural and Other Area
1	Sulphur Dioxide (SO ₂), µg/m ³	IS:5182 Part-II/ CPCB	Annual	50
			24 hours	80
2	Nitrogen Dioxide (NO ₂), µg/m ³	IS:5182 Part-VI/ CPCB	Annual	40
			24 hours	80
3	Particulate Matter (PM ₁₀), µg/m ³	IS:5182 Part-XXIII/ CPCB	Annual	60
			24 hours	100
4	Particulate Matter (PM _{2.5}), µg/m ³	EETNE/SOP/01/2017	Annual	40
			24 hours	60


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----



TC-7669

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TEST REPORT**AMBIENT AIR ANALYSIS REPORT**Rep.No. AAAR_14030224_07_966
SAMPLE ID: EETNE/DEC/05/24Date: 14/12/2024
ULR NO.:TC766924000000237FIssued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

Sample Drawn By	: UTPAL BEZBARUAH
Sampling Plan & Procedure	: EETNE/SOP/01
Analysis Duration	: 10/12/2024 TO 14/12/2024
Sampling Instrument Used	: AMBIENT AIR SAMPLER/RDS
Pollution Control Device, if any	: YES/NO

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS			
				PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)
i)	09/12/2024	Near Main Gate	Clear	55.8	36.2	17.1	11.3
ii)		Near Cement Mill		56.2	34.9	28.1	14.2
iii)	10/12/2024	Near Electrical Substation		55.8	35.8	27.2	15.6
iv)		Near Truck Tippler		61.3	40.8	27.2	17.8

Remarks: - Parameters are within the permissible limit.
:- Sampling were done under the annual based.**NATIONAL AMBIENT AIR QUALITY STANDARDS:**

Sl. No.	Pollutant	Test Method	Time Weighted Average	Concentration in Ambient Air Industrial, Residential, Rural and Other Areas
1	Sulphur Dioxide (SO ₂), $\mu\text{g}/\text{m}^3$	IS:5182 Part-II/ CPCB	Annual	50
			24 hours	30
2	Nitrogen Dioxide (NO ₂), $\mu\text{g}/\text{m}^3$	IS:5182 Part-VI/ CPCB	Annual	40
			24 hours	30
3	Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	IS:5182 Part-XXIII/ CPCB	Annual	50
			24 hours	100
4	Particulate Matter (PM _{2.5}), $\mu\text{g}/\text{m}^3$	EETNE/SOP/01/2017	Annual	40
			24 hours	60

Khairul Islam
Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati

Utpal Bezbaruah
Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
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-----END OF REPORT-----



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TC-7669

TEST REPORT

AMBIENT AIR ANALYSIS REPORT

Rep.No. AAAR_14030224_07_1037
SAMPLE ID: EETNE/JAN/11/25

Date: 31/01/2025
ULR NO.:TC766925000000256F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.


Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 28/01/2025 TO 31/01/2025
Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS
Pollution Control Device, if any : YES/NO

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS			
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)
i)	27/01/2025	Near Main Gate	Clear	56.7	37.6	18.9	13.4
ii)		Near Cement Mill		57.8	35.6	29.8	15.9
iii)	28/01/2025	Near Electrical Substation		56.8	36.9	28.6	17.2
iv)		Near Truck Tippler		62.8	43.6	29.3	16.6

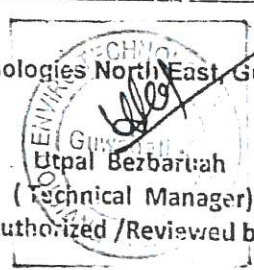
Remarks: - Parameters are within the permissible limit.
:- Sampling were done under the annual based.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Test Method	Time Weighted Average	Concentration in Ambient Air Industrial, Residential, Rural and Other Area
1	Sulphur Dioxide (SO ₂), µg/m ³	IS:5182 Part-II/ CPCB	Annual 24 hours	50 80
2	Nitrogen Dioxide (NO ₂), µg/m ³	IS:5182 Part-VI/ CPCB	Annual 24 hours	40 80
3	Particulate Matter (PM ₁₀), µg/m ³	IS:5182 Part-XXIII/ CPCB	Annual 24 hours	60 100
4	Particulate Matter (PM _{2.5}), µg/m ³	EETNE/SOP/01/2017	Annual 24 hours	40 60


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
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-----END OF REPORT-----

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TC-7669

TEST REPORT

AMBIENT AIR ANALYSIS REPORT

Rep.No. AAAR_14030224_07_1058
SAMPLE ID: EETNE/FEB/04/25

Date: 22/02/2025
ULR NO.:TC766925000000261F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 18/02/2025 TO 22/02/2025
Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS
Pollution Control Device, if any : YES/NO
Sample Description : Filter Paper

SL. NO.	DATE OF SAMPLING	Date Sample received	of	LOCATION/ SOURCE	WEATHER	PARAMETERS			
						PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)
i)	17/02/2025	19/02/2025	Near Main Gate	Clear	58.8	38.8	19.8	13.6	
ii)			Near Cement Mill		58.9	36.7	30.1	14.7	
iii)	18/02/2025		Near Electrical Substation		57.3	37.8	30.6	17.7	
iv)			Near Truck Tippler		61.6	42.1	28.1	17.8	

Remarks: - :- Sampling were done under the annual based.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Test Method	Time Weighted Average	Concentration in Ambient Air
				Industrial, Residential, Rural and Other Area
1	Sulphur Dioxide (SO ₂), µg/m ³	IS:5182 Part-II CPCB	Annual	50
			24 hours	80
2	Nitrogen Dioxide (NO ₂), µg/m ³	IS:5182 Part-VI	Annual	40
			24 hours	80
3	Particulate Matter (PM ₁₀), µg/m ³	IS:5182 Part-XXIII	Annual	60
			24 hours	100
4	Particulate Matter (PM _{2.5}), µg/m ³	IS:5182 (Part24):2019	Annual	40
			24 hours	60

Note: i) The results relate to the tested sample only.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

*RDS - Respirable Dust Sampler.

Khairul Islam Sheikh
(Environmental Chemist)
Prepared & Checked by

For Envision Enviro Technologies North East, Guwahati

Utpal Bezbaruah
(Technical Manager)
Authorized Signatory/Reviewed by

-----END OF REPORT-----



TC-7669

Recognized by Pollution Control Board, Assam

TEST REPORT**AMBIENT AIR ANALYSIS REPORT**

Rep.No. AAAR_14030224_07_1123

SAMPLE ID: EETNE/MAR/03/25

Date: 12/03/2025

ULR NO.:TC766925000000279F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,
Dist:Kamrup(M),Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 07/03/2025 TO 12/03/2025
Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS
Pollution Control Device, if any : YES/NO
Sample Description : Filter Paper

Sl. NO.	DATE OF SAMPLING	Date of Sample received	LOCATION/ SOURCE	WEATHER	PARAMETERS			
					PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)
i)	05/03/2025	07/03/2025	Near Main Gate	Clear	57.3	36.2	20.1	14.9
ii)			Near Cement Mill		59.2	37.1	31.6	15.9
iii)	Near Electrical Substation		58.9		38.1	28.1	18.1	
iv)	06/03/2025		Near Truck Tippler		62.3	44.6	26.2	16.6

Remarks: - :- Sampling were done under the annual based.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No	Pollutant	Test Method	Time Weighted Average	Concentration in Ambient Air Industrial, Residential, Rural and Other Area
1	Sulphur Dioxide (SO ₂), $\mu\text{g}/\text{m}^3$	IS:5182 Part-II CPCB	Annual	50
			24 hours	80
2	Nitrogen Dioxide (NO ₂), $\mu\text{g}/\text{m}^3$	IS:5182 Part-VI	Annual	40
			24 hours	80
3	Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	IS:5182 Part-XXIII	Annual	60
			24 hours	100
4	Particulate Matter (PM _{2.5}), $\mu\text{g}/\text{m}^3$	IS:5182 (Part24):2019	Annual	40
			24 hours	60

Note: i) The results relate to the tested sample only.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

*RDS - Respirable Dust Sampler.

For Envision Enviro Technologies North East, Guwahati

Subasita Phukan
Subasita Phukan
(Environmental Chemist)
Prepared & Checked by

Utpal Bezbaruah
Utpal Bezbaruah
(Technical Manager)
Authorized Signatory/Reviewed by

-----END OF REPORT-----

ANNEXURE-IIC

Ambient Noise Level Monitoring Report

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 241112_14030224_07_938
SAMPLE ID: EETNE/NOV/19/24

Date: 12/11/2024
ULR NO.:TC766924000000230F


Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit), Gopinath Bordoloi
Road, Village: Chamatapathar, Guwahati-782402, Dist:Kamrup(M), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq	
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
i)	07/11/2024	Near Electrical Substation	67.2	58.9
ii)		Near Truck Tippler	71.8	56.6
iii)	08/11/2024	Near Main Gate	70.4	57.2
iv)		Near Cement Mill	71.1	71.1


Remarks: Noise level is carried out during 75% of the Day Time and Night Time.
Method of analysis : IS : 9989 :1981 RA:2014
Sampling Instrument Used : SLM100 SL.NO.484-I-22, SLM 100 (213 DTC-2013)

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 241021_14030224_07_851
SAMPLE ID: EETNE/OCT/01/24

Date: 21/10/2024
ULR NO.:TC766924000000208F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit), Gopinath Bordoloi
Road, Village: Chamatapathar, Guwahati-782402, Dist:Kamrup(M), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq	
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
i)	16/10/2024	Near Electrical Substation	68.5	59.5
ii)		Near Truck Tippler	72.6	57.1
iii)	17/10/2024	Near Main Gate	70.6	58.1
iv)		Near Cement Mill	72.5	70.6

Remarks: Noise level is carried out during 75% of the Day Time and Night Time.

Method of analysis : IS : 9989 :1981 RA:2014

Sampling Instrument Used : SLM100 SL.NO.484-I-22, SLM 100 (213 DTC-2013)

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 250131_14030224_07_1039
SAMPLE ID: EETNE/JAN/11/25

Date: 31/01/2025
ULR NO.:TC766925000000256F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit), Gopinath Bordoloi
Road, Village: Chamatapathar, Guwahati-782402, Dist:Kamrup(M), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq	
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
i)	27/01/2025	Near Electrical Substation	67.2	60.6
ii)		Near Truck Tippler	71.3	61.4
iii)	28/01/2025	Near Main Gate	70.7	60.7
iv)		Near Cement Mill	71.8	62.3

Remarks: Noise level is carried out during 75% of the Day Time and Night Time.

Method of analysis : IS : 9989 :1981 RA:2014

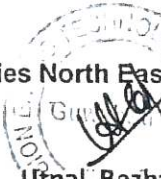
Sampling Instrument Used : SLM100 SL.NO.484-I-22, SLM 100 (213 DTC-2013)

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Recognized by Pollution Control Board, Assam

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 241214_14030224_07_968
SAMPLE ID: EETNE/DEC/05/24

Date: 14/12/2024
ULR NO.: TC766924000000237F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit), Gopinath Bordoloi
Road, Village: Chamatapathar, Guwahati-782402, Dist: Kamrup(M), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A) Leq	
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
i)	09/12/2024	Near Electrical Substation	66.8	59.2
ii)		Near Truck Tippler	70.9	60.8
iii)	10/12/2024	Near Main Gate	71.2	58.9
iv)		Near Cement Mill	73.6	70.3


Remarks: Noise level is carried out during 75% of the Day Time and Night Time.

Method of analysis : IS : 9989 :1981 RA:2014


Sampling Instrument Used : SLM100 SL.NO.484-I-22, SLM 100 (213 DTC-2013)

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----



TC-7669

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AMBIENT NOISE LEVEL MEASUREMENT REPORTRep.No. 250312_14030224_07_1125
SAMPLE ID: EETNE/MAR/03/25Date: 12/03/2025
ULR NO.:TC766925000000279FIssued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit), Gopinath Bordoloi
Road, Village: Chamatapathar, Guwahati-782402, Dist:Kamrup(M), Assam.

Sl. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq	
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
i)	05/03/2025	Near Electrical Substation	67.8	61.9
ii)		Near Truck Tippler	72.1	63.6
iii)	06/03/2025	Near Main Gate	72.8	62.8
iv)		Near Cement Mill	71.6	66.7

Remarks: Noise level is carried out during 75% of the Day Time and Night Time.

Method of analysis : IS : 9989 :1981 RA:2014

Sampling Instrument Used : SLM100 SL.NO.484-I-22, SLM 100 (213 DTC-2013)

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note i) The results relate to the tested sample only.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East, Guwahati

Subasita Phukan
Subasita Phukan
(Environmental Chemist)
Prepared & Checked byUtpal Bezbaruah
(Technical Manager)
Authorized Signatory/Reviewed by

-----END OF REPORT-----

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 250222_14030224_07_1060
SAMPLE ID: EETNE/FEB/04/25

Date: 22/02/2025
ULR NO.:TC766925000000261F

Issued to : M/s. Star Cement Ltd. (Guwahati Grinding Unit), Gopinath Bordoloi
Road, Village: Chamatapathar, Guwahati-782402, Dist:Kamrup(M), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq	
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
i)	17/02/2025	Near Electrical Substation	68.8	60.8
ii)		Near Truck Tippler	71.2	62.5
iii)	18/02/2025	Near Main Gate	71.6	61.8
iv)		Near Cement Mill	71.1	68.1

Remarks: Noise level is carried out during 75% of the Day Time and Night Time.

Method of analysis : IS : 9989 :1981 RA:2014

Sampling Instrument Used : SLM100 SL.NO.484-I-22, SLM 100 (213 DTC-2013)


Ambient Noise Standards:


Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note: i) The results relate to the tested sample only.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East, Guwahati


Khairul Islam Sheikh
(Environmental Chemist)
Prepared & Checked by


Utpal Bezbaruah
(Technical Manager)
Authorized Signatory/Reviewed by

-----END OF REPORT-----

ANNEXURE-IID

Fugitive Emission Analysis Report



TC-7669


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FUGITIVE EMISSION ANALYSIS REPORTRep.No. 241112_14030224_07_937
SAMPLE ID: EETNE/NOV/19/24Date: 12/11/2024
ULR NO.:TC766924000000230F**Name & Address:**M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road,
Village: Chamatapathar,
Guwahati-782402,
Dist: Kamrup (M), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	07/11/2024	Near Packing Yard	962	-Water spraying is done to control the fugitive emission. -All materials are stored in closed sheds to mitigate fugitive emission.
ii)	08/11/2024	Near Fly Ash Yard	1155	

Method used for Fugitive= IS 5182(PART IV) 1999/CPCB
Instrument used= RDS
Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized/Reviewed byNote: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----




TC-7669

Recognized by Pollution Control Board, Assam


NABL ACCREDITED

FUGITIVE EMISSION ANALYSIS REPORTRep.No. 241021_14030224_07_850
SAMPLE ID: EETNE/OCT/01/24Date: 21/10/2024
ULR NO.:TC766924000000208F**Name & Address:**M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road,
Village: Chamatapathar,
Guwahati-782402,
Dist: Kamrup (M), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	16/10/2024	Near Packing Yard	978	-Water spraying is done to control the fugitive emission.
ii)	17/10/2024	Near Fly Ash Yard	1056	-All materials are stored in closed sheds to mitigate fugitive emission.

Method used for Fugitive= IS 5182(PART IV) 1999/CPCB
Instrument used= RDS
Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized / Reviewed by

Note: i) The results relate to the tested parameters & items sample.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----



Recognized by Pollution Control Board, Assam

TS-7689

FUGITIVE EMISSION ANALYSIS REPORT

Rep.No. 250131_14030224_07_1038
SAMPLE ID: EETNE/JAN/11/25

Date: 31/01/2025
ULR NO.:TC766925000000256F

Name & Address:

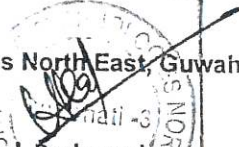
M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road,
Village: Chamatapathar,
Guwahati-782402,
Dist: Kamrup (M), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	27/01/2025	Near Packing Yard	1120	-Water spraying is done to control the fugitive emission.
ii)	28/01/2025	Near Fly Ash Yard	1370	-All materials are stored in closed sheds to mitigate fugitive emission.

Method used for Fugitive= IS 5182(PART IV) 1999/CPCB
Instrument used= RDS


Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized / Reviewed by

Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----




Recognized by Pollution Control Board, Assam


TC-7669

FUGITIVE EMISSION ANALYSIS REPORTRep.No. 241214_14030224_07_967
SAMPLE ID: EETNE/DEC/05/24Date: 14/12/2024
ULR NO.:TC766924000000237F**Name & Address:**M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road,
Village: Chamatapathar,
Guwahati-782402,
Dist: Kamrup (M), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	09/12/2024	Near Packing Yard	1041	-Water spraying is done to control the fugitive emission.
ii)	10/12/2024	Near Fly Ash Yard	1260	-All materials are stored in closed sheds to mitigate fugitive emission.

Method used for Fugitive= IS 5182(PART IV) 1999/CPCB
Instrument used= RDS

Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Utpal Barbaruah
(Technical Manager)
Authorized /Reviewed by
Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----



Recognized by Pollution Control Board, Assam

TC-7669

FUGITIVE EMISSION ANALYSIS REPORT

Rep.No. 250312_14030224_07_1124
SAMPLE ID: EETNE/MAR/03/25

Date: 12/03/2025
ULR NO.:TC766925000000279F

Name & Address:

M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road,
Village: Chamatapathar,
Guwahati-782402,
Dist: Kamrup (M), Assam.

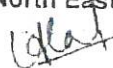
SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	05/03/2025	Near Packing Yard	928	-Water spraying is done to control the fugitive emission.
ii)	06/03/2025	Near Fly Ash Yard	1014	-All materials are stored in closed sheds to mitigate fugitive emission.

Method used for Fugitive= IS 5182(PART IV) 1999
Instrument used= RDS

- Note i) The results relate to the tested sample only.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East, Guwahati


Subasita Phukan
(Environmental Chemist)
Prepared & Checked by


Utpal Bezbaruah
(Technical Manager)
Authorized Signatory/Reviewed by

-----END OF REPORT-----



TC-7669

Recognized by Pollution Control Board, Assam

FUGITIVE EMISSION ANALYSIS REPORT

Rep.No. 250222_14030224_07_1059
SAMPLE ID: EETNE/FEB/04/25

Date: 22/02/2025
ULR NO.:TC766925000000261F

Name & Address:

M/s. Star Cement Ltd. (Guwahati Grinding Unit)
Gopinath Bordoloi Road,
Village: Chamatapathar,
Guwahati-782402,
Dist: Kamrup (M), Assam.


SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	17/02/2025	Near Packing Yard	929	-Water spraying is done to control the fugitive emission.
ii)	18/02/2025	Near Fly Ash Yard	960	-All materials are stored in closed sheds to mitigate fugitive emission.

Method used for Fugitive= IS 5182(PART IV) 1999/CPCB
Instrument used= RDS

- Note: i) The results relate to the tested sample only.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.


Khairul Islam Sheikh
(Environmental Chemist)
Prepared & Checked by

For Envision Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager)
Authorized Signatory/Reviewed by

-----END OF REPORT-----

ANNEXURE-II E

Water Analysis Report

Report No: 241023_14030224_0
Sample ID: EETNE/OCT/11/24

Date of Report: 23/10/24
Date of sample receipt: 16/10/24

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
9	Chloride	mg/L	16.6	APHA 23 rd Edition 2017,4500-Cl ⁻ B,Page:4-75	250	1000
10	Sulphate	mg/L	12.4	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	200	400
11	Nitrate	mg/L	2.17	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	45	No relaxation
12	Fluoride	mg/L	0.21	APHA 23 rd Edition 2017,4500-F ⁻ D,Page:4-90	1.0	1.5
13	Copper	mg/L	0.011	APHA 23 rd Edition 2017,3111 B,Page:3-20	0.05	1.5
14	Iron(as Fe)	mg/L	0.06	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	0.3	No relaxation
15	Cadmium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.003	No relaxation
16	Lead	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.01	No relaxation
17	Zinc	mg/L	0.106	APHA 23 rd Edition 2017, 3111 B,Page:3-20	5	15
18	Total Chromium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.05	No relaxation
19	Manganese	mg/L	0.018	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.1	0.3
20	Selenium	mg/L	BDL	APHA 23 rd Edition 2017, 3114 B,Page:3-36	0.01	No relaxation
21	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017,3114 B,Page:3-36	0.01	0.05

NOTE: BDL (Below Detection Limit), TDS (Total Dissolved Solids)

For Envision Enviro Technologies North East, Guwahati



KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test done by



UTPAL BEZBARUAH
Technical Manager
Authorized Signatory /Reviewed By

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

End of report

TEST REPORT:

Report No: 241023_14030224_0

ULR No: TC766924000000475F

Sample ID: EETNE/OCT/11/24

Test Starting Date: 17/10/24

Date of Report: 23/10/24

Date of sample receipt: 16/10/24

Test completion Date: 23/10/24

Name & Address of Client	M/s. Star Cement Ltd., (Guwahati Grinding Unit) Gopinath Bordoloi Road,Vill-Chamatapathar, Dist-Kamrup(M), Guwahati-782402, Assam.				
Sample Description	Type: Drinking Water			Source: RO Water	
Sample collected by	M/s. En-vision Enviro Technologies North East				
Sample Collection Particulars	Date 16/10/24	Time 12:40 P.M	Temperature 30°C	Quantity Drawn:4L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
1	pH	---	7.24	IS 3025 (Part 11) Electrometric Method	6.5-8.5	No relaxation
2	Turbidity	NTU	0.3	IS 3025 (Part 10) Nephelometric Method	1.0	5.0
3	TDS	mg/L	187	IS 3025 (Part 16)	500	2000
4	Total hardness	mg/L	139.5	IS 3025 (Part 21)	200	600
5	Calcium	mg/L	31.78	IS 3025 (Part 40) EDTA Titrimetric Method	75	200
6	Magnesium	mg/L	6.11	IS 3025 (Part 46)	30	100
7	Total Alkalinity	mg/L	20.6	IS 3025 (Part 23)	200	600
8	Dissolved Oxygen	mg/L	6.2	APHA 23 rd Edition 2017, 4500-O C, Page:4-146	---	---


Report No: 241114_14030224_05
Sample ID: EETNE/NOV/09/24

Date of Report: 14/11/24
Date of sample receipt: 07/11/24

SI No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
9	Chloride	mg/L	11.1	APHA 23 rd Edition 2017,4500-Cl ⁻ B,Page:4-75	250	1000
10	Sulphate	mg/L	10.3	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	200	400
11	Nitrate	mg/L	1.87	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	45	No relaxation
12	Fluoride	mg/L	0.15	APHA 23 rd Edition 2017,4500-F ⁻ D,Page:4-90	1.0	1.5
13	Copper	mg/L	0.01	APHA 23 rd Edition 2017,3111 B,Page:3-20	0.05	1.5
14	Iron(as Fe)	mg/L	0.04	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	0.3	No relaxation
15	Cadmium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.003	No relaxation
16	Lead	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.01	No relaxation
17	Zinc	mg/L	0.111	APHA 23 rd Edition 2017, 3111 B,Page:3-20	5	15
18	Total Chromium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.05	No relaxation
19	Manganese	mg/L	0.013	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.1	0.3
20	Selenium	mg/L	BDL	APHA 23 rd Edition 2017, 3114 B,Page:3-36	0.01	No relaxation
21	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017,3114 B,Page:3-36	0.01	0.05

NOTE: BDL (Below Detection Limit), TDS (Total Dissolved Solids)

For Envision Enviro Technologies North East, Guwahati


KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test done by


UTPAL BEZBARUAH
Technical Manager
Authorized Signatory /Reviewed By

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

End of report



TC-7669

TEST REPORT:

Report No: 241114_14030224_05

ULR No: TC766924000000489F

Sample ID: EETNE/NOV/09/24

Test Starting Date: 08/11/24

Date of Report: 14/11/24

Date of sample receipt: 07/11/24

Test completion Date: 14/11/24

Name & Address of Client	M/s. Star Cement Ltd., (Guwahati Grinding Unit) Gopinath Bordoloi Road,Vill-Chamatapathar, Dist-Kamrup(M), Guwahati-782402, Assam.				
Sample Description	Type: Drinking Water			Source: RO Water	
Sample collected by	M/s. En-vision Enviro Technologies North East				
Sample Collection Particulars	Date 07/11/2024	Time 3:00 P.M	Temperature 30°C	Quantity Drawn:4L	Sampling Method: EETNE/SOP/02

SI No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
1	pH	---	7.60	IS 3025 (Part 11) Electrometric Method	6.5-8.5	No relaxation
2	Turbidity	NTU	0.1	IS 3025 (Part 10) Nephelometric Method	1.0	5.0
3	TDS	mg/L	331	IS 3025 (Part 16)	500	2000
4	Total hardness	mg/L	71.4	IS 3025 (Part 21)	200	600
5	Calcium	mg/L	22.07	IS 3025 (Part 40) EDTA Titrimetric Method	75	200
6	Magnesium	mg/L	3.96	IS 3025 (Part 46)	30	100
7	Total Alkalinity	mg/L	189	IS 3025 (Part 23)	200	600
8	Dissolved Oxygen	mg/L	6	APHA 23 rd Edition 2017, 4500-O C, Page:4-146	---	---


Report No: 250204_14030224_0
Sample ID: EETNE/JAN/08/25


Date of Report: 04/02/25
Date of sample receipt: 27/01/25

SI No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
9	Chloride	mg/L	9.34	APHA 23 rd Edition 2017,4500-Cl ⁻ B,Page:4-75	250	1000
10	Sulphate	mg/L	7.4	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	200	400
11	Nitrate	mg/L	1	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	45	No relaxation
12	Fluoride	mg/L	0.12	APHA 23 rd Edition 2017,4500-F D,Page:4-90	1.0	1.5
13	Copper	mg/L	0.015	APHA 23 rd Edition 2017,3111 B,Page:3-20	0.05	1.5
14	Iron(as Fe)	mg/L	0.12	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	0.2	No relaxation
15	Cadmium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.003	No relaxation
16	Lead	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.01	No relaxation
17	Zinc	mg/L	0.07	APHA 23 rd Edition 2017, 3111 B,Page:3-20	5	15
18	Total Chromium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.05	No relaxation
19	Manganese	mg/L	0.016	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.1	0.3
20	Selenium	mg/L	BDL	APHA 23 rd Edition 2017, 3114 B,Page:3-36	0.01	No relaxation
21	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017,3114 B,Page:3-36	0.01	0.05

NOTE: BDL (Below Detection Limit), TDS (Total Dissolved Solids)

For Envision Enviro Technologies North East, Guwahati


KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test done by


UTPAL BEZDARUAH
Technical Manager
Authorized Signatory / Reviewed By

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

End of report



TEST REPORT:

Report No: 250204_14030224_0

ULR No: TC766925000000615F

Sample ID: EETNE/JAN/08/25

Test Starting Date: 28/01/25

Date of Report: 04/02/25

Date of sample receipt: 27/01/25

Test completion Date: 04/02/25

Name & Address of Client	M/s. Star Cement Ltd., (Guwahati Grinding Unit) Gopinath Bordoloi Road, Vill- Chamatapathar, Dist-Kamrup(M), Guwahati-782402, Assam.				
Sample Description	Type: Drinking Water			Source: RO Water	
Sample collected by	M/s. En-vision Enviro Technologies North East				
Sample Collection Particulars	Date 27/01/2025	Time 2:30 P.M	Temperature 20°C	Quantity Drawn:4L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
1	pH	---	7.14	IS 3025 (Part 11) Electrometric Method	6.5-8.5	No relaxation
2	Turbidity	NTU	0.6	IS 3025 (Part 10) Nephelometric Method	1.0	5.0
3	TDS	mg/L	237	IS 3025 (Part 16)	500	2000
4	Total hardness	mg/L	77.3	IS 3025 (Part 21)	200	600
5	Calcium	mg/L	25.2	IS 3025 (Part 40) EDTA Titrimetric Method	75	200
6	Magnesium	mg/L	6.1	IS 3025 (Part 46)	30	100
7	Total Alkalinity	mg/L	177.2	IS 3025 (Part 23)	200	600
8	Dissolved Oxygen	mg/L	5.7	APHA 23 rd Edition 2017, 4500-O C, Page:4-146	---	---

Report No: 250224_14030224_0
Sample ID: EETNE/FEB/19/25

Date of Report: 24/02/25
Date of sample receipt: 17/02/25

SI No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
9	Chloride	mg/L	8.24	APHA 23 rd Edition 2017,4500-Cl ⁻ B,Page:4-75	250	1000
10	Sulphate	mg/L	7.1	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	200	400
11	Nitrate	mg/L	1.2	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	45	No relaxation
12	Fluoride	mg/L	0.13	APHA 23 rd Edition 2017,4500-F ⁻ D,Page:4-90	1.0	1.5
13	Copper	mg/L	0.014	APHA 23 rd Edition 2017,3111 B,Page:3-20	0.05	1.5
14	Iron(as Fe)	mg/L	0.11	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	0.3	No relaxation
15	Cadmium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.003	No relaxation
16	Lead	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.01	No relaxation
17	Zinc	mg/L	0.06	APHA 23 rd Edition 2017, 3111 B,Page:3-20	5	15
18	Total Chromium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.05	No relaxation
19	Manganese	mg/L	0.012	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.1	0.3
20	Selenium	mg/L	BDL	APHA 23 rd Edition 2017, 3114 B,Page:3-36	0.01	No relaxation
21	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017,3114 B,Page:3-36	0.01	0.05

NOTE: BDL (Below Detection Limit), TDS (Total Dissolved Solids)

Note: i) The results relate to the tested sample only.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.


KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test done by


For Enviro Enviro Technologies North East, Guwahati
UTPAL BEZBARUAH
Technical Manager
Authorized Signatory / Reviewed By

End of report



TEST REPORT:

Report No: 250224_14030224_0

ULR No: TC766925000000646F

Sample ID: EETNE/FEB/19/25

Test Starting Date: 18/02/25

Date of Report: 24/02/25

Date of sample receipt: 17/02/25

Test completion Date: 24/02/25

Test completion Date: 24/02/25

Name & Address of Client	M/s. Star Cement Ltd., (Guwahati Grinding Unit) Gopinath Bordoloi Road,Vill-Chatatapathar, Dist-Kamrup(M), Guwahati-782402, Assam.				
Sample Description	Type: Drinking Water			Source: RO Water	
Sample collected by	M/s. En-vision Enviro Technologies North East				
Sample Collection particulars	Date 17/02/2025	Time 3:30 P.M	Temperature 22°C	Quantity Drawn:4L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
1	pH	---	7.17	IS 3025 (Part 11) Electrometric Method	6.5-8.5	No relaxation
2	Turbidity	NTU	0.5	IS 3025 (Part 10) Nephelometric Method	1.0	5.0
3	TDS	mg/L	234	IS 3025 (Part 16)	500	2000
4	Total hardness	mg/L	79.2	IS 3025 (Part 21)	200	600
5	Calcium	mg/L	23.1	IS 3025 (Part 40) EDTA Titrimetric Method	75	200
6	Magnesium	mg/L	5.2	IS 3025 (Part 46)	30	100
7	Total Alkalinity	mg/L	173.2	IS 3025 (Part 23)	200	600
8	Dissolved Oxygen	mg/L	5.3	APHA 23 rd Edition 2017, 4500-O C, Page:4-146	---	---



Recognized by Pollution Control Board, Assam

TC-7688

Report No: 250312_14030224_0
Sample ID: EETNE/MAR/15/25

Date of Report: 12/03/25
Date of sample receipt: 05/03/25


Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
9	Chloride	mg/L	8.9	APHA 24 th Edition 2023,4500-Cl ⁻ B,Page:4-75	250	1000
10	Sulphate	mg/L	7.2	APHA 24 th Edition 2023,4500-SO ₄ ²⁻ E,Page:4-199	200	400
11	Nitrate	mg/L	1	APHA 24 th Edition 2023,4500-NO ₃ B,Page:4-127	45	No relaxation
12	Fluoride	mg/L	0.11	APHA 24 th Edition 2023,4500-F D,Page:4-90	1.0	1.5
13	Copper	mg/L	0.012	APHA 24 th Edition 2023,3111 B,Page:3-20	0.05	1.5
14	Iron(as Fe)	mg/L	0.1	APHA 24 th Edition 2023,3500-Fe B,Page:3-80	0.3	No relaxation
15	Cadmium	mg/L	BDL	APHA 24 th Edition 2023, 3111 B,Page:3-20	0.003	No relaxation
16	Lead	mg/L	BDL	APHA 24 th Edition 2023, 3111 B,Page:3-20	0.01	No relaxation
17	Zinc	mg/L	0.05	APHA 24 th Edition 2023, 3111 B,Page:3-20	5	15
18	Total Chromium	mg/L	BDL	APHA 24 th Edition 2023, 3111 B,Page:3-20	0.05	No relaxation
19	Manganese	mg/L	0.011	APHA 24 th Edition 2023, 3111 B,Page:3-20	0.1	0.3
20	Selenium	mg/L	BDL	APHA 24 th Edition 2023, 3114 B,Page:3-36	0.01	No relaxation
21	Arsenic	mg/L	BDL	APHA 24 th Edition 2023,3114 B,Page:3-36	0.01	0.05


NOTE: i) BDL (Below Detection Limit), TDS (Total Dissolved Solids)

i) The results relate only to the parameters tested.

ii) The test report shall not be reproduced except in full, without written approval of laboratory.

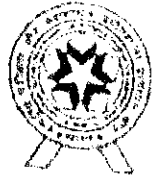
For Envision Enviro Technologies North East, Guwahati


KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test done by


UTPAL BEZBARUAH
Technical Manager
Authorized Signatory / Reviewed By

End of report

Recognized by Pollution Control Board, Assam



TC-7669

TEST REPORT:

Report No: 250312_14030224_0

ULR No: TC766925000000688F

Sample ID: EETNE/MAR/15/25

Test Starting Date: 05/03/25

Date of Report: 12/03/25

Date of sample receipt: 05/03/25

Test completion Date: 12/03/25

Name & Address of Client	M/s. Star Cement Ltd., (Guwahati Grinding Unit) Gopinath Bordoloi Road, VIII- Chamatapathar, Dist-Kamrup(M), Guwahati-782402, Assam.				
Sample Description	Type: Drinking Water			Source: RO Water	
Sample collected by	M/s. En-vision Enviro Technologies North East				
Sample Collection Particulars	Date 05/03/2025	Time 1:30 P.M	Temperature 27°C	Quantity Drawn:4L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
1	pH	---	7.13	IS 3025 (Part 11) Electrometric Method	6.5-8.5	No relaxation
2	Turbidity	NTU	0.4	IS 3025 (Part 10) Nephelometric Method	1.0	5.0
3	TDS	mg/L	228	IS 3025 (Part 16)	500	2000
4	Total hardness	mg/L	82.4	IS 3025 (Part 21)	200	600
5	Calcium	mg/L	23.7	IS 3025 (Part 40) EDTA Titrimetric Method	75	200
6	Magnesium	mg/L	5.9	IS 3025 (Part 46)	30	100
7	Total Alkalinity	mg/L	157.2	IS 3025 (Part 23)	200	600
8	Dissolved Oxygen	mg/L	5.4	APHA 24 th Edition 2023, 4500-O C, Page: 4-146	---	---

Recognized by Pollution Control Board, Assam



TC-7669

TEST REPORT:

Report No: 250310_14030224_02
ULR No: TC766925000000690F
Sample ID: EETNE/MAR/17/25
Test Starting Date: 06/03/25

Date of Report: 10/03/25
Date of sample receipt: 05/03/25
Test completion Date: 10/03/25

Name & Address of Client	M/s. Star Cement Ltd., (Guwahati Grinding Unit), Gopinath Bordoloi Road, Vill-Chatmatapathar, Dist-Kamrup(M), Guwahati-782402, Assam.				
Sample Description	Type: Waste water		Source: STP (Outlet)		
Sample collected by	M/s. En-vision Enviro Technologies North East				
Sample Collection Particulars	Date 05/03/2025	Time 12:45 P.M	Temperature 27°C	Quantity Drawn: 2L	Sampling Method: EETNE/SOP/02

SN	Parameter	Unit	Result	Method Followed by	Permissible Limit (CPCB)
1	pH	---	7.33	IS 3025 (Part 11) Electrometric Method	6.5-9.0
2	TSS	mg/L	48.9	APHA 23 rd Edition 2017, 2540 D, Page no. 2-70	100
3	BOD	mg/L	18.8	IS 3025 (Part 44)	30
4	COD	mg/L	42.3	APHA 23 rd Edition 2017, 5220 B, Page no: 5-18	250
5	OIL & GREASE	mg/L	2.9	APHA 23 rd Edition 2017, 5520 B, Page no. 5-42	10
6	COLOUR	HU	5	APHA 23 rd Edition 2017, 2120 B, Page no. 2-6	--
7	ODOUR	TON	Aggreable	APHA 23 rd Edition 2017, 2150 B, Page no. 2-16	--

Note : i) (TSS) Total Suspended Solids, (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (HU) Hazen Unit, (TON) Threshold Odour No.

ii) The results relate only to the parameters tested and item sampled.

iii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East

Jyotika Baishya
Chemist
Test Done By

Utpal Bezbaruah
Technical Manager
Authorized Signatory / Reviewed By

End of Report



Recognized by Pollution Control Board, Assam

TC-7669

TEST REPORT:

Report No: 250310_14030224_01

ILR No: TC766925000000689F

Sample ID: EETNE/MAR/16/25

Test Starting Date: 06/03/25

Date of Report: 10/03/25

Date of sample receipt: 05/03/25

Test completion Date: 10/03/25

Name & Address of Client		M/s. Star Cement Ltd., (Guwahati Grinding Unit), Gopinath Bordoloi Road, Vill. Chamatapathar, Dist-Kamrup(M), Guwahati-782402, Assam			
Sample Description		Type: Waste water		Source: STP (Inlet)	
Sample collected by		M/s. En-vision Enviro Technologies North East			
Sample Collection Particulars		Date 05/03/2025	Time 12:30 P.M	Temperature 27°C	Quantity Drawn: 2L
		Sampling Method: EETNE/SOP/02			

SN	Parameter	Unit	Result	Method Followed by
1	pH	---	5.43	IS 3025 (Part 11) Electrometric Method
2	TSS	mg/L	147.8	APHA 23 rd Edition 2017, 2540 D, Page no. 2-70
3	BOD	mg/L	106	IS 3025 (Part 44)
4	COD	mg/L	262	APHA 23 rd Edition 2017, 5220 B, Page no: 5-13
5	OIL & GREASE	mg/L	12.6	APHA 23 rd Edition 2017, 5520 B, Page no. 5-42
6	COLOUR	HU	12	APHA 23 rd Edition 2017, 2120 B Page no. 2-6
7	ODOUR	TON	5	APHA 23 rd Edition 2017, 2150 B Page no. 2-16

Note: i) (TSS) Total Suspended Solids, (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (HU) Hazen Unit, (TON) Threshold Odour No.

ii) The results relate only to the parameters tested and item sampled.

iii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East

Jyotika
Jyotika Baishya
Chemist
Test Done By

Utpal
Utpal Bezbaruah
Technical Manager
Authorized Signatory / Reviewed By

End of Report

ANNEXURE-IIF

Calibration Certificate



VAYU BODHAK INDIA

Plot No.15, Sector-27B,
Faridabad, Haryana - 121003

Manufacturers and Traders of Pollution Monitoring Instruments

Calibration Report

Customer Details

Customer Name & Address	M/s. Star Cement Ltd Gopinath Bordoloi Road, Vill. Chamata Pathar, P.O. & P.S Sonapur, Kamrup(M), Assam			
Instrument/Model	FINE PARTICULATE SAMPLER APM 550	Serial no.	1409 DTJ2013	
Date of Calibration	13/09/2024	Due Date	12/09/2025	
Certificate No.	VBI/530/2024-25	Temperature	29°C	Accuracy 2% FSD

Details of Master/Reference Instrument calibrated by NABL Laboratories

Details	Serial No.	Model/Type	Authority	Certificate No.	Validity
Rotameter	PGC22642	0-60 LPM	FCRI	CA13282310387	04/10/2024
Time Totalizer	VBI-TT-01	Digital	BELZ	20055777	26/10/2024
StopWatch	VBI-S-01	Digital	BELZ	20055378	27/10/2024

Calibration Reading

Dry Gas Meter (Sr. No. 130700082)

#	Test Reading (LPM)	Master Reading (LPM)	Calibration Factor
1.	10	10.21	1.02
2.	20	20.32	1.02
3.	30	29.84	0.99

Time Totalizer-1409

#	Test Reading (Hr)	Master Reading (Hr)	Calibration Factor
1.	0.48	0.48	1.00

Prepared By: *Sourabh*

Calibrated By: *[Signature]*

For Vayubodhak India

[Signature]
(Authority Signatory)





VAYU BODHAK INDIA

Plot No.15, Sector-27B,
Faridabad, Haryana - 121003

Manufacturers and Traders of Pollution Monitoring Instruments

Calibration Report

Customer Details

Customer Name & Address	M/s. Star Cement Ltd Gopinath Bordoloi Road, Vill. Chamata Pathar, P.O. & P.S Sonapur, Kamrup(M), Assam			
Instrument/Model	FINE PARTICULATE SAMPLER APM 550	Serial no.	1400 DTJ2013	
Date of Calibration	13/09/2024	Due Date	12/09/2025	
Certificate No.	VBI/529/2024-25	Temperature	29°C	Accuracy 2% FSD

Details of Master/Reference Instrument calibrated by NABL Laboratories

Details	Serial No.	Model/Type	Authority	Certificate No.	Validity
Rotameter	PGC22642	0-60 LPM	FCRI	CA13282310387	04/10/2024
Time Totalizer	VBI-TT-M1	Digital	BELZ	20055777	26/10/2024
StopWatch	VBI-S-01	Digital	BELZ	20055378	27/10/2024

Calibration Reading

Dry Gas Meter (Sr. No. 130700093)

#	Test Reading (LPM)	Master Reading (LPM)	Calibration Factor
1.	10	10.32	1.03
2.	20	20.22	1.01
3.	30	29.92	1.00

Time Totalizer-1400

#	Test Reading (Hr)	Master Reading (Hr)	Calibration Factor
1.	0.45	0.45	1.00

Prepared By: Soukabh

Calibrated By: [Signature]

For Vayubodhak India

[Signature]
(Authority Signatory)



CALIBRATION REPORT

Customer Details

Customer Name & Address	M/s. Star Cement Ltd Gopinath Bordoloi Road, Vill. Chamata Pathar, P.O. & P.S Sonapur, Kamrup(M), Assam			
Instrument/Model	FINE PARTICULATE SAMPLER APM 550	Serial no.	1675DTE2016	
Date of Calibration	13/09/2024	Due Date	12/09/2025	
Certificate No.	VBI/528/2024-25	Temperature	28°C	Accuracy 2% FSD

Details of Master/Reference Instrument calibrated by NABL Laboratories

Details	Serial No.	Model/Type	Authority	Certificate No.	Validity
Rotameter	PGC22642	0-60 LPM	FCRI	CA13282310387	04/10/2024
Time Totalizer	VBI-TT-01	Digital	BELZ	20055777	26/10/2024
StopWatch	VBI-S-01	Digital	BELZ	20055378	27/10/2024

Calibration Reading

Time Totalizer (Sr. No. 1675)

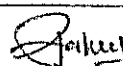
#	Test Reading (Hr)	Master Reading (Hr)	Calibration Factor
1.	0.46	0.46	1.00

Dry Gas Meter (Sr. No. 151001664)

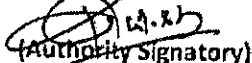
#	Test Reading (LPM)	Master Reading (LPM)	Calibration Factor
1.	10	10.23	1.02
2.	20	20.15	1.01
3.	30	29.68	0.99

Prepared By: Sourabh

Calibrated By:



For Vayubodhak India


(Authority Signatory)




VAYU BODHAK INDIA

Plot No.15, Sector-27B,
Faridabad, Haryana - 121003

Manufacturers and Traders of Pollution Monitoring Instruments

CALIBRATION REPORT

Customer Details

Customer Name & Address	M/s. Star Cement Ltd Gopinath Bordoloi Road, Vill. Chamata Pathar, P.O. & P.S Sonapur, Kamrup(M), Assam			
Instrument/Model	FINE PARTICULATE SAMPLER APM 550	Serial no.	1673DTE2016	
Date of Calibration	13/09/2024	Due Date	12/09/2025	
Certificate No.	VBI/527/2024-25	Temperature	28°C	Accuracy 2% FSD

Details of Master/Reference Instrument calibrated by NABL Laboratories

Details	Serial No.	Model/Type	Authority	Certificate No.	Validity
Rotameter	PGC22642	0-60 LPM	FCRI	CA13282310387	04/10/2024
Time Totalizer	VBI-TT-01	Digital	BELZ	20055777	26/10/2024
StopWatch	VBI-S-01	Digital	BELZ	20055378	27/10/2024

Calibration Reading

Time Totalizer (Sr. No. 1673)

#	Test Reading (Hr)	Master Reading (Hr)	Calibration Factor
1.	0.46	0.46	1.00

Dry Gas Meter (Sr. No.151001661)

#	Test Reading (LPM)	Master Reading (LPM)	Calibration Factor
1.	10	9.98	1.00
2.	20	19.96	0.98
3.	30	30.21	1.01

Prepared By: Souvik

Calibrated By:

[Signature]

For Vayubodhak India

[Signature]
(Authority Signatory)

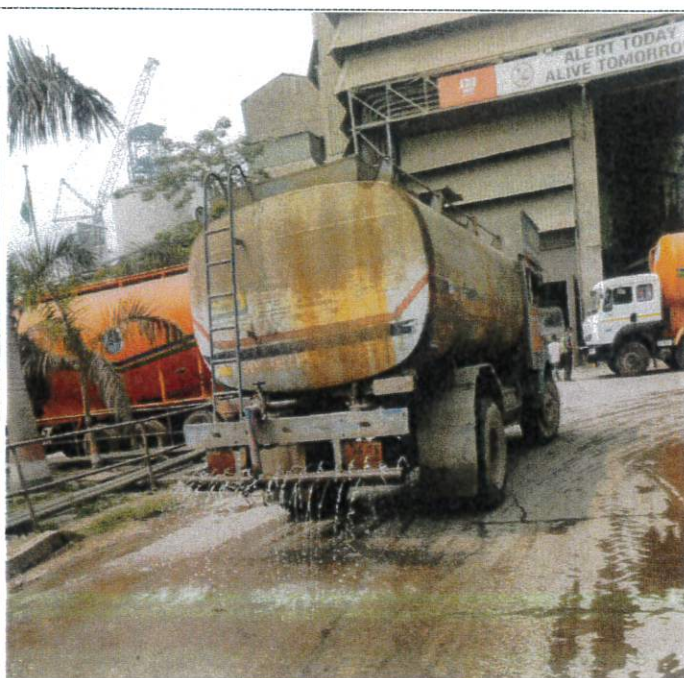


ANNEXURE-III (A)

**Photographs of water sprinkling with water tank at
loading and unloading points.**

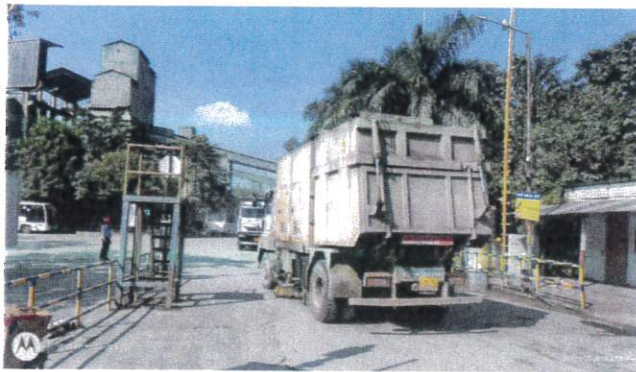


Star Cement Ltd. (Guwahati Grinding Unit)



ANNEXURE-III(B)

Photographs of road sweeper machine during cleaning of loading and unloading points.



Star Cement Ltd. (Guwahati Grinding Unit)

ANNEXURE-VI

Rain Water Harvesting Details





ANNEXURE-V

CREP

Compliance to Corporate Responsibility for Environmental Protection

(CREP)

S. No.	Corporate Responsibility for Environmental Protection (CREP)	Compliance to CREP
1	<p>Cement Plants, which are not complying* with notified standards, shall do the following to meet the standards:</p> <ul style="list-style-type: none"> • Augmentation of existing Air Pollution Control Devices — by July 2003 • Replacement of existing Air Pollution Control Devices — by July 2004 	<p>Star Cement Limited (SCL) is complying with notified standards.</p> <ul style="list-style-type: none"> • The Grinding Unit has installed high efficiency Bag House and Bag Filters for Cement Mill and Coal Mill and other pollution control equipments were already installed in the plant to reduce the stack emission from various source so that it does not exceed 30 mg/Nm³. • The entire chimneys has been installed with height as per CPCB guidelines. • Latest State of the art technology Pollution Control Equipment (PCE) has been installed at all sections to control emission levels to the prescribed limits. • Interlocking facility has been provided, so that in the event of failure of any pollution control equipment adopted by the unit, the unit shall be immediately put out of operation and the respective unit is shut down automatically.
2	<p>Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100 mg/Nm³ limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm³.</p>	<p>The location of the Grinding Unit is neither in critically polluted area nor in urban area. However, the unit has installed Air Pollution Control equipment with particulate emission of less than 30mg/Nm³.</p>
3	<p>The new cement kilns to be accorded NOC/Environmental Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/Nm³ for particulate matter emissions.</p>	<p>Not Applicable to this project as the unit is a Clinker Grinding Unit.</p>
4	<p>CPCB will evolve load based standards by December 2003.</p>	<p>The Grinding Unit has complied with load based standards.</p>

5	CPCB and NCBM will evolve SO ₂ and NO _x emission standards by June 2004.	The unit has complied with SO ₂ and NO _x emission standards as per MoEFCC standards and its subsequent amendments.
6	The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendations within three months.	The Grinding Unit has implemented pollution control measures to control fugitive emissions from all the sections such as unloading section, material handling section including transfer points, clinker storage section etc., by putting these facilities in closed circuit and installation of pulse jet bag filters.
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.	N/A
8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003.	<p>The unit has already installed continuous online monitoring equipment.</p> <p>The continuous stack emission and ambient air monitoring system is on working condition and online data has been connected to CPCB & SPCB in regular basis in link-</p> <p>Stack Emission monitoring data- https://glens.glensserver.com/</p> <p>Ambient Air Analysis data- http://www.pcba.rtdas.in/</p>
9	Trippings in kiln ESP to be minimized by July 2003 as per the recommendation of NTF.	Not Applicable to this project as the unit is a Clinker Grinding Unit.
10	Industries will submit the target date to enhance the utilization of waste material	<p>The Grinding Unit has been utilizing the waste material such as domestic solid waste and used lube oil in the plant is being sold to authorized vendors.</p> <ul style="list-style-type: none"> • Sewage Treatment Plant (STP) is already installed in the plant as stipulated. • We have already placed dust bins in front of

	by April 2003.	our residential colony and industry area. • Generated all the municipal solid waste for residential colony and industry is being disposed off.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Not Applicable as the project is Clinker Grinding Unit.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	Not Applicable as the project is a Clinker Grinding Unit.

* Non complying units shall give bank guarantee to respective SPCBs.

ANNEXURE-IV

Greenbelt Development Details

Greenbelt Development Details

Sl.No	YEAR	TYPE	NO. of Plant Planted,	Species of Plant Planted,
1	December 2011 to March 2014	Trees	1330	Kadam, Neem ,Krishana sura, Ashoka, Mango, Litchi, Radha sura, Emily, Jamun, Sonaru, Gomari, Nahar, Chandan ,Teek, Amlokhi, Silikha, Guava,etc.
		Seasonal Flower	500	Calendula,Sunflower, Cineraria, Marigold, Hasnahana, Pelocia, Gagonia, Rose, Dahalia, Madhabilota, Bottle Plam, Vogan vila etc.
		Shurbs	700	Duranta, Hamilia, Nerium, Murrya, Acalypha etc.
		Grass	31000	Carpet Grass & Local Grass.
2	April 2014 to January 2015	Trees	3800	Kadam, Neem ,Krishansura, Ashoka. Mango, Litchi, Radhasura, Emily, Jamun, Sonaru, Gomari, Nahar, Chandan , Teek, Amlokhi, Silikha, Guava,etc.
		Seasonal Flower	130	Calendula,Sunflower, Cineraria, Marigold, Hasnahana, Pelocia, Gagonia, Rose, Dahalia, Madhabilota, Bottle Plam, Vogan vila etc.
		Shurbs	250	Duranta, Hamilia, Murrya, Acalypha etc.
		Grass	7570	Carpet Grass & Local Grass
3	January 2015 to March 2015	Trees	140	Kadam, Neem ,Krishansura, Ashoka. Mango, Litchi, Radhasura, Emily, Jamun, Sonaru, Gomari, Nahar, Chandan , Teek, Amlokhi, Silikha, Guava,etc.
		Seasonal Flower		
		Shurbs	110	Bakul & bottle Plam
		Grass	4700	Carpet Grass & Local Grass
4	April 2015 to August 2015	Trees	1855	Kadam, Neem ,Krishana sura, Ashoka, Mango, Litchi, Radha sura, Emily, Jamun, Sonaru, Gomari, Nahar, Chandan ,Teek, Amlokhi, Silikha, Guava,etc.
		Seasonal Flower		
		Shurbs	80	Bakul & bottle Plam
		Grass		
5	August 2015 to Dec 2015	Seasonal Flower	1501	Marigold,Dalia & Lucky bamboo
6	January 2016 to June 2016	Trees	19575	Amara,Amalakhi,Arjun,Ashoka,Bel,Bhelkar,Bhomora,Bogori,Bonsum,Bor,T hekara,Ejar,Gamari,Ghora,Neem,Madhuriaam,Hollong,Jamunm,Kadam,Kam ini,Kanchan,Kardoi,Kathal,Lemon,Khakan,madar,Nahor,Neem,Orange,Oute nga,Palash,Poma,Rawab,Tenga,Sajina,Segun,Semul,Silikha,Siris,Sisoo,San aru,Teteli,Titachap,Tejpat
		Shurbs	450	Bakul
		Grass	75	Bamboo
		Seasonal Flower	3102	Marigold,Dalia & Lucky bamboo
7	Ocyober-2017 to July 2018	Trees	28000	Kadam, Neem ,Krishana sura, Ashoka, Mango, Litchi,radhasura,emily,jamun,sonaru,gomari,nahar,chandan,teek,amlokhi,si likha,guava etc.
		Red chandan	7	
		Grass	150	
8	June 2019 to September 2019	Trees	24468	Kaju,teteli,Modhuriam,Mongo,Lemon,Neem,jamun,Amlokhi,Silikha.
9	March 2020 to March, 2022	Trees	25000	Madhurium,Litchi, Mango,Jamun,Emily,Sonaru,Silikha,Amlokhi,Neem.
10	April, 2022 to March, 2025	Trees	29721	Kadam, Neem ,Krishana sura, Ashoka, Mango, Litchi,radhasura,emily,jamun,sonaru,gomari,nahar,chandan,teek,amlokhi,si likha,guava etc.
Total Trees (Nos)			1,33,989	
Total Area (Ha)			5.94	

Photographs of Greenbelt Development







Star Cement Ltd. (Guwahati Grinding Unit)



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