

**COMPLIANCE REPORT OF ENVIRONMENTAL
CLEARANCE
FOR THE PERIOD OF OCTOBER-2019 TO
MARCH-2020**

F. NO. SEIAA/165/2014/EC/22

SUBMITTED BY-

M/S JOYSHREE CEMENT INDUSTRIES

**H/N-62, BY LANE- 2, TARUN NAGAR, G.S ROAD
GUWAHATI-781005, ASSAM**

Name of The Company : M/s Joyshree Cement Industries

Project : Cement Grinding Unit (300 TPD OPC/PPC) at Dag no. 12, 15 & 17 of Patta No. 201 at Village- Sila, Laxmi Nagar, Changsari Mouza- Sila Sinduri Gupha of kamrup (R) District, Assam.

Environmental Clearance Letter : F. No. SEIAA/165/2014/EC/22, Dated 2nd March 2015.

A - SPECIFIC CONDITIONS

SN.	EC CONDITIONS	COMPLIANCE STATUS
1.	Consent to Establish shall be obtained from Pollution Control Board, Assam and copy of the same shall be submitted to SEIAA, Assam.	"Consent to establish" is obtained vide letter no. WB/GUW/T-2899/15-16/110/324 dtd 8/6/2015 from Pollution Control Board, Assam under Air act, 1981 and water Act, 1974. The copy of the same is already submitted to SEIAA, Assam.
2.	Cement grinding shall be carried out in closed cement mill and stack emission from various sources shall not exceed 50mg/Nm ³ . As proposed, cyclone separators followed by reverse pulse jet type bag filters shall be provided alongwith stacks of adequate height as per the CPCB guidelines to control gaseous emission below 50mg/Nm ³ . Stack of adequate height shall also be provided to DG sets.	Stack emission from the various sources is being monitored. Monitoring values are within the permissible limit of CPCB. Pulse Jet type Bag filter, cyclone are provided along with stack of adequate height to control the gaseous emission. Height of DG Stack is also constructed as per CPCB norms to control the stack emission. Monitoring reports are referred as Annexure-I .
3.	Continuous monitoring system to monitor gaseous emission shall be provided and limit of SPM shall be controlled within 50mg/Nm ³ in the cement plant by installing adequate air pollution control system. Interlocking facility shall be provided in the pollution control equipment so that in the event of failure of APCDs, the respective process unit (s) is shut down automatically.	Continuous monitoring system is installed for stack monitoring. We have installed reverse pulse jet type bag filter to control air pollution in grinding Section. Interlocking facility is also provided in the pollution control equipment so that event of failure device the process unit is automatically shut down.
4.	Ambient air quality monitoring stations (AAQMS) shall be set up as per statutory requirement in consultation with the SEIAA, Assam or PCB, Assam. Ambient air quality including ambient noise monitoring shall be carried out regularly and must not exceed the standards stipulated under EPA, 1986. Monitoring reports for ambient air, stack and fugitive emissions shall be submitted to the SEIAA, Assam regional office MoEF at Shillong	Ambient air quality monitoring stations are set up in consultation with Pollution Control Board Assam vide letter no. WB/LB-81/AMB/09-10/156/267 dtd 12 th May,

SN.	EC CONDITIONS	COMPLIANCE STATUS
	and PCB, Assam half yearly. Data on ambient air quality stack emission and fugitive emission shall be uploaded on the Company's website.	2015. Monitoring reports are referred as Annexure-I . Monitoring reports are regularly send to MoEF, APCB and SEIAA. Monitoring data is uploaded in our company's website i.e www.galaxycement.com
5.	The company shall install adequate dust collection and extraction system to control fugitive dust emission at various transfer points, raw mill handling (unloading, conveying, transporting, stacking). Vehicular movement, bagging and packing areas etc. Crusher shall be operated with high efficiency bag filters. All conveyers shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	Dust collection device is used at various point to control fugitive emission. Raw materials and end products are stored in the covered area. All the conveyors are underground. Transpiration of raw material and end product also carried out in covered area. Pneumatic system is used for fly ash bulker unloading area.
6.	Dust suppression by regular water sprinkling shall be carried out in cement plant and area prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading points, transfer points and other vulnerable areas to control fugitive emissions. Fugitive emission shall also be controlled by dust suppression. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Board in this regard.	Fugitive emission is controlled by dust suppression. Water sprinkling is being carried out regularly in loading and unloading areas to control the fugitive emission. Monitoring reports of ambient air quality and fugitive emission are referred as Annexure-I .
7.	Measures shall be taken to prevent impact of particulate emission/ fugitive emission, if any from the proposed plant on the surrounding area.	Pulse jet type bag filter, water sprinkling system, covered AC sheets are used to prevent fugitive emission.
8.	Efforts shall be made to reduce impact of the transfer of the raw materials and end products on the surrounding environment including agriculture land. All the raw materials including fly ash shall be transported in the closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored and comply the norms.	We have taken all the necessary measures to reduce the emission during transportation of raw material and end product. Raw material and end product are transported in closed and good condition vehicles. Trucks are also covered with tarpaulin and loaded as per the capacity.
9.	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/ Code of Practice issued by the CPCB shall be followed.	Fugitive emission from all sources is controlled by using pulse jet type bag filters, water sprinkling system and with covered conveyer. Adequate sapling of plant is grown in our plant to control the fugitive emission. Monitoring reports are referred as Annexure-I .

SN.	EC CONDITIONS	COMPLIANCE STATUS
10.	Asphalting/concreting of roads and water spray all around the critical areas prone to air pollution and having high levels of SPM and RPM shall be ensured.	All internal roads are concrete. Water sprinkling also done regularly to reduce the SPM and RPM.
11.	The gaseous emissions and particulate matter levels from various process units shall conform to the standards prescribed by the MoEF Govt. Of India from time to time. At no point of time, the emissions shall exceed the prescribed limits. Interlocking system of equipment shall be chosen such that in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restated until the desired efficiency has been achieved.	The gaseous emission and particulate matter levels at various process unit is being measured. Monitoring reports are enclosed vide Annexure-I . Interlocking system of equipment is chosen in such a way that the failure of any pollution control devices system immediately put out of operation.
12.	Total water requirement shall not exceed 3m ³ /day. Water efficient technology like air-cooled condenser to captive power plant shall be provided to conserve water. The treated effluent shall be recycled/ reused in plant related activities i.e cooling, dust suppression and green belt development etc. "Zero" discharge shall be strictly adopted and no effluent shall be discharged from the cement plant, outside the premises to any nearby water body/ river etc.	Total water requirement is less very less being a dry unit. "Zero" discharge is adopted.
13.	The drawl of 15m ³ /day water from ground water sources shall be allowed.	Agreed with. Being a dry nit total water requirement is very less.
14.	Domestic effluent shall be treated in septic pits and soak pit in cement plant. All treated waste water shall be used for gardening/ agricultural purposes and dust suppression. Domestic waste shall be segregated into bio-degradable and non-biodegradable. Bio-degradable waste shall be composted and non- biodegradable waste shall be disposed off in environment-friendly manner or filled at identified sites only after proper treatment.	Domestic waste water is treated in soak pit. Treated water is used for dust suppression and green belt development. Domestic solid wastes are segregated into bio-degradable and non-biodegradable waste and disposed of as per norms.
15.	Regular monitoring of ground water level shall be carried out a network of existing wells. The frequency of monitoring shall be four times a year-pre-monsoon (April/ May), monsoon (August), post-monsoon (November) and winter (January). Data thus collected shall be sent at regular intervals to SEIAA, Assam and Regional Office, MoEF, Shillong and Central Ground Water Board.	Quality of ground water is being monitored regularly. Monitoring reports of ground water referred as Annexure -II
16.	Suitable conservation measures to augment ground water resources in the area shall be planned and implemented in consultation with Central Ground Water Board.	For conservation of ground water we have rain water harvesting structure and recharge the ground water level.
17.	The project proponent shall take appropriate mitigation measures to prevent pollution of nearby river and other surface water body, if any.	No river and water bodies are present near the plant.
18.	All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Sludge generated during treatment of waste water shall be dried, compressed and used for land filling. Treated sewage shall be	Dust collected from various pollution control devices are recycled and reused. Waste oil, grease and scrapped automobile

SN.	EC CONDITIONS	COMPLIANCE STATUS
	used as manure for green belt development. Waste oil, grease and scrapped automobile batteries shall be provided to the authorized recyclers/ reprocessors as per Hazardous wastes (Management, Handling & Transboundary Movement) Rules 2008 and Batteries (Management & Handling) Rules 2001.	batteries are sold to the authorized recyclers/ reprocessors approved by PCB, Assam as per hazardous waste management Rules.
19.	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.	Point is noted.
20.	Effort shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	Low grade lime and fly ash is being used for the manufacturing of cement
21.	All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003. Efforts shall be made to use fly ash maximum in making Pozollona Portland Cement (PPC).	Agreed with.
22.	Rain water collected from the roof top shall be injected into the ground through injection wells to recharge the ground water table.	Rainwater harvesting structure is developed to recharge the ground water.
23.	As proposed, green belt shall be developed in at least (33%) in project area as per the CPCB guidelines in consultation with local DFO to mitigate the impact of fugitive emissions. A long term action plan for the plantation/ A forestation/green belt development etc. shall be prepared and submitted to the SEIAA, Assam and Regional Office of MoEF Shillong.	Green belt is developed around the periphery of the plant . An application was given to DFO regarding development of green belt inside our plant premises vide our letter no. Nil dtd 25 th May 2016.
24.	The project proponent shall take all precautionary measures during construction & operation phases for conservation and protection of flora & Fauna. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with State Forest and Wildlife Department. Necessary allocation of funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the SEIAA, Assam & Regional office of MoEF Shillong within 3 months from the date of issue of this letter.	Not applicable in our case. However if required we will consult with State Forest and Wildlife Department.
25.	Rehabilitation and Resettlement Plan for the project affected population including tribal as per the policy of the State Govt. Shall be implemented. Compensation paid in any case shall not be less than the norms prescribed under the National Resettlement and Rehabilitation Policy, 2007.	Not applicable in our case.
26.	All the safety norms stipulated by the Director General, Mine & Safety (DGMS) shall be implemented.	We are complying all the Safety norms stipulated by Director General, Mine & Safety (DGMS).
27.	Requisite on site & off site emergency plan shall be prepared in consultation with concerned authorities and implemented.	On site emergency plan is prepared and already submitted to PCB, Assam.
28.	The project authority should strictly comply the provisions made in Manufacture, Storage & Import of Hazardous Chemicals Rules 1989 as amended and the Public Liability Insurance Act for hazardous chemicals etc.	Agreed with.
29.	Acoustic enclosures shall be provided to control noise whenever necessary. Noise shall also be controlled from cooler fans,	Acoustics enclosure is provided for the compressor

SN.	EC CONDITIONS	COMPLIANCE STATUS
	compressor house, cement mill and raw mill, cement plant using appropriate noise control measures.	& DG set. Monitoring reports are enclosed as Annexure-I.
30.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied with.
31.	Under Corporate Social Responsibility (CSR) sufficient budgetary provision shall be made for health improvement, education, electricity, water and other socio economic up-liftmen in and around the project area.	Under Corporate Social Responsibility scheme (CSR) sufficient budgetary provision is being allocated. Copy of the CSR budget is already sent to MoEF.

B. GENERAL CONDITIONS

SN.	EC CONDITIONS	COMPLIANCE STATUS
1.	The project authorities must adhere to the stipulations made by State Government of Assam.	We are complying with all the stipulations made by Pollution Control Board, Assam. Consent to operate for the year 2020-2021 for the Air (Prevention and Control of Pollution) Act 1981 for the plant & 1 No. of DG was obtained vide letter no. WB/GUW/T-2699/15-16/179/1200 Dated 04/01/2020.
2.	No further expansion or modification in the project shall be carried out without prior approval of the SEIAA Assam.	Agreed with.
3.	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipated in consultation with the Pollution Control Board. Data of ambient air quality and stack emissions shall be regularly monitored & submitted to the SEIAA, Assam including Regional Office of MoEF at Shillong once in six months.	Three no's of ambient air quality monitoring stations were set up in consultation with Pollution Control Board Assam vide letter no. WB/LB-81/AMB/09-10/156/267 dtd 12 th May, 2015. Monitoring reports of ambient air quality are referred as Annexure-I. Monitoring reports of air quality and stack emission is submitted herewith to MoEF, SEIAA and PCB.
4.	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	Industrial waste water is not generated since it is a zero discharge unit.

5.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rues, 1989 viz 75 dBA (day time) and 70dBA (night time).	We have undertaken all the measures like providing acoustic enclosures, silencer, etc. to all DG set. Monitoring reports enclosed as Annexure-I .
6.	Proper housekeeping and adequate occupational health programs must be taken up. Occupational Health Surveillance programme shall be done on a regular basis and records maintained. The programme must including lung function and sputum analysis test once in six months.	Occupational health Surveillance programme is carried out regularly and records are maintained as per factories act.
7.	The company shall undertake eco- development measures including community welfare measures in the project area.	<p>We have undertaken following Eco- development measures in and around our Plant:</p> <ol style="list-style-type: none"> 1. Regular supply of Electricity and drinking water to the nearest Lakshmi Temple. 2. Renovation of Lakshminagar L.P.School near our plant. 3. Organized reforestation and afforestation program in association with Forest department. 4. Creating social awareness for tree plantation. 5. Distribute sapling to the community people. 6. Planting local species of tree near the factory. 7. Celebration of World Environment Day. 8. Awareness program in the community regarding conservation of water. 9. Safe drinking water facility provided in local schools and nearby village.
8.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	Agreed with.
9.	A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	We are going to establish a separate environmental management cell. We are already availing the

		service of Assam Pollution Control Board recognised and NABL accredited monitoring agency for the routine environmental monitoring services.
10.	The project Authorities shall inform SEIAA, Assam as well as Regional Office, MoEF at Shillong the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work etc.	Date of financial closure is 31 st March every year. Date of land development work on 8 th June' 2015 onwards. Date of commencing the production is 3 rd Feb' 2016.
11.	The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, Assam. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the SEIAA, Assam.	Public notice is published in News Paper "The Eastern Chronicle" dtd. 10 th March/2015 in English and "The Niyomiya Batra" dtd. 10 th March/2015 in Assamese.
12.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the SEIAA, Assam. The criteria pollutant levels namely: SPM, RSPM(PM10/PM2.5), SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at convenient location near the main gate of the company in the public domain.	Status of the compliance of the stipulated environment clearance condition is uploaded in our website i.e www.galaxycement.com and also sent to the SEIAA, Assam. Monitoring data is being displayed at convenient location.
13.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA, Assam and Regional Office of MoEF, Shillong. The SEIAA, Assam shall monitor the stipulated conditions mentioned in the Environmental Clearance time to time.	Six monthly reports on the status of the compliance of the stipulated environmental conditions and monitoring data is being submitted herewith to the respective SEIAA Assam, Regional Office of MoEF, Shillong.
14.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the SEIAA, Assam and Pollution Control Board, Assam as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the SEIAA, Assam & Regional Offices of the MoEF, Shillong by e-mail.	Environmental statement in form-V for the financial year 2019-2020 is refereed as Annexure -III
15.	The SEIAA, Assam or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by SEIAA, Assam & the Regional Office of MoEF, Shillong.	Agreed with.
16.	The SEIAA, Assam may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Agreed with.
17.	Commitment made in the EIA/EMP report shall be complied.	All the stipulation made in EIA/EMP are implemented and complied.

18.	Any other conditions or alternation in the above conditions will have to be implemented by the project authorities in a time bound manner.	Agreed with.
19.	The above conditions will be enforced, inter-alia under the provisions of the Water (prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Agreed with.

ANNEXURE-I

MONITORING REPORTS

**(STACK EMISSION, AMBIENT AIR, AMBIENT NOISE
& FUGITIVE EMISSION)**

ANNEXURE-II

GROUND WATER ANALYSIS REPORTS

ANNEXURE-III

ENVIRONMENTAL STATEMENT IN FORM V



Recognized by Pollution Control Board, Assam

NABL ACCREDITED

Certificate No. TC-7668

AMBIENT AIR ANALYSIS REPORT

TEST REPORT

Rep.No. AAAR_1503057_01_001/236

Sample ID No.: EETNE/JAN/20/20

Issued to :

M/s. Joyshree Cement Industries, Vill: Sila, Laxmi Nagar, Changsari,
Mouza: Sila Sinduri Ghupa, Dist: Kamrup(R), Assam

Date: 05/02/2020

ULR NO.: TC76692000000021F

Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : 30/01/2020, 31/01/2020 TO 05/02/2020
 Sampling Instrument Used : AMBIENT AIR SAMPLER /RDS
 Pollution Control Device, if any : NO/YES
 Ambient Temperature : 21°C

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)	30/01/2020	Near Office Building	Clear	53.3	31.7	16.2	7.8
ii)	31/01/2020	Near Main Gate		58.9	36.0	20.5	10.4
iii)		Near Staff Quarter		56.2	34.4	19.1	8.9

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	
2	Nitrogen Dioxide (NO ₂), µg/m ³	IS:5182 Part-VI/ CPCB	24 hours	40	80
3			Annual	60	80
4	Particulate Matter (PM ₁₀), µg/m ³	IS:5182 Part-XXIII/ CPCB	24 hours	40	100
4			Annual	60	100

For Envision Enviro Technologies North East, Guwahati

Utpal Bezbaruah
(Environmental Chemist)

Dr. Pranita Chakraborty
(Quality Manager)
(Authorized Signatory)

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.




Recognized by Pollution Control Board, Assam

NABL ACCREDITED**FUGITIVE EMISSION ANALYSIS REPORT**


Certificate No. TC-7669

Rep.No.: 200205_1503057_04_003
Sample ID No.: EETNE/JAN/01/20Date: 05/02/2020
ULR NO.: TC766920000000021F**Name & Address:**M/s. Joyshree Cement Industries
Vill: Sila, Laxmi Nagar, Changsari,
Mouza: Sila Sinduri Gupha,
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (SPM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	31/01/2020	Near Loading Yard	1095	-Water spraying is done to control the fugitive emission. -All materials are stored in closed sheds to mitigate fugitive emission.

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

For Envision Enviro Technologies North East, Guwahati


Dr. Pranita Chakraborty
(Quality Manager)
(Authorized Signatory)Note: i) The results relate only to the parameters tested.
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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 200318_1503057_06A_002 ²³⁶

Date: 18/03/2020

Name & Address:

M/s. Joyshree Cement Industries
Vill: Sila, Laxmi Nagar, Changsari,
Mouza: Sila Sinduri Gupha,
Dist: Kamrup(R), Assam.

OCT/19

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	DG Background Noise	Measured Sound	Actual Sound Pressure Level of DG in dB(A) Leq
i)	04/10/2019	160 KVA - DG Set	57.2	72.1	71.95

NOV/19

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	DG Background Noise	Measured Sound	Actual Sound Pressure Level of DG in dB(A) Leq
i)	28/11/2019	160 KVA - DG Set	57.9	71.6	71.21

DEC/19

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	DG Background Noise	Measured Sound	Actual Sound Pressure Level of DG in dB(A) Leq
i)	23/12/2019	160 KVA - DG Set	57.2	71.9	71.75

JAN/20

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	DG Background Noise	Measured Sound	Actual Sound Pressure Level of DG in dB(A) Leq
i)	30/01/2020	160 KVA - DG Set	57.0	71.5	71.34

FEB/20

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	DG Background Noise	Measured Sound	Actual Sound Pressure Level of DG in dB(A) Leq
i)	19/02/2020	160 KVA - DG Set	58.3	71.3	71.07

MAR/20

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	DG Background Noise	Measured Sound	Actual Sound Pressure Level of DG in dB(A) Leq
i)	13/03/2020	160 KVA - DG Set	56.1	72.3	72.19

Remarks: Noise level is carried out during day time at a distance 1metre from the enclosure surface.

Method of analysis : CPCB July 2015

Sampling Instrument Used : ENVIROTECH SLM 100, HTC SL 1350

DG Set Noise Standards: Noise limit viz. 75 dB(A) at 1m distance.

Utpal Bezbaruah
(Environmental Chemist)

FOR ENVISION ENVIRO TECHNOLOGIES NORTH EAST, GUWAHATI

Dr. Pranita Chakraborty
(Quality Manager)
(Authorized Signatory)

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.

NABL ACCREDITED LABORATORY

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 200318_1503057_06A_004

Date: 18/03/2020

Name & Address:

M/s. Joyshree Cement Industries
Vill: Sila, Laxmi Nagar, Changsari,
Mouza: Sila Sinduri Gupha,
Dist: Kamrup(R), Assam.
OCT/19

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)	04/10/2019	Near office building	69.4	65.1
ii)		Near Main Gate	73.8	69.2
iii)	05/10/2019	Near Clinker Yard	72.7	67.0

NOV/19

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)	28/11/2019	Near office building	68.8	63.4
ii)	29/11/2019	Near Main Gate	73.1	68.1
iii)		Near Clinker Yard	71.5	66.2

DEC/19

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)	23/12/2019	Near office building	69.2	64.7
ii)	24/12/2019	Near Main Gate	74.1	68.9
iii)		Near Clinker Yard	72.2	67.3

JAN/20

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)	31/01/2020	Near office building	70.1	65.5
ii)	30/01/2020	Near Main Gate	73.8	68.2
iii)		Near Clinker Yard	73.0	67.9

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

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

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

Rep.No. 200318_1503057_06A_004 ³³⁶

Date: 18/03/2020

FEB/20

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)	19/02/2020	Near office building	67.7	64.9
ii)		Near Main Gate	73.5	68.0
iii)	20/02/2020	Near Clinker Yard	71.4	66.5

MAR/20

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)	13/03/2020	Near office building	68.2	65.1
ii)		Near Main Gate	74.0	69.2
iii)	14/03/2020	Near Clinker Yard	72.6	67.3

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

Method of analysis : CPCB July 2015

Sampling Instrument Used : ENVIROTECH SLM 100, HTC SL 1350

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

Utpal
Utpal Bezbaruah
(Environmental Chemist)

FOR ENVISION ENVIRO TECHNOLOGIES NORTH EAST, GUWAHATI



Dr. Pranita Chakraborty
(Quality Manager)
(Authorized Signatory)

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.

NABL ACCREDITED LABORATORY



Recognized by Pollution Control Board, Assam

TEST REPORT

NABL ACCREDITED

Certificate No. TC-769

STACK ANALYSIS REPORT

Rep.No. SAR_1503057_02_005 ³³⁶

Date: 18/03/2020

Issued to : M/s. Joyshree Cement Industries, Vill: Sila, Laxmi Nagar, Changsari, Mouza: Sila Sinduri Gupha, Dist: Kamrup(R), Assam.

Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : OCT/19 04/10/2019 TO 10/10/2019, NOV/19 28/11/2019 TO 04/12/2019, DEC/19 23/12/2019 TO 28/12/2019, JAN/20 30/01/2020 TO 05/02/2020, FEB/20 19/02/2020 TO 25/02/2020, MAR/20 13/03/2020 TO 18/03/2020
 Sampling Instrument Used : STACK KIT/FLUE GAS ANALYZER
 Pollution Control Device, if any : NO/YES
 Ambient Temperature : OCT/19 (35°C), NOV/19(32°C), DEC/19(28°C), JAN/20(21°C) FEB/20 (19°C), MAR/20(22°C)

OCT/19 (Sample ID: EETNE/OCT/04/19) & ULR NO.: TC766919000000151F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (g/kwhr)	
i)	04/10/2019	Stack attached to DG set 160 KVA	0.18	-Data is within the permissible limit

NOV/19 (Sample ID: EETNE/NOV/19/19) & ULR NO.: TC766919000000189F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (g/kwhr)	
i)	28/11/2019	Stack attached to DG set 160 KVA	0.16	-Data is within the permissible limit

DEC/19 (Sample ID: EETNE/DEC/13/19) & ULR NO.: TC766919000000203F

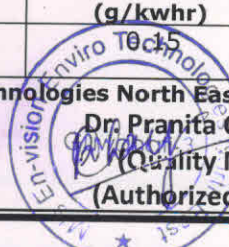
SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (g/kwhr)	
i)	23/12/2019	Stack attached to DG set 160 KVA	0.17	-Data is within the permissible limit

JAN/20 (Sample ID: EETNE/JAN/20/20) & ULR NO.: TC766920000000021F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (g/kwhr)	
i)	30/01/2020	Stack attached to DG set 160 KVA		-Data is within the permissible limit

Utpal
 Utpal Bezbaruah
 (Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati
 Dr. Pranita Chakraborty
 (Quality Manager)
 (Authorized Signatory)



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.



Recognized by Pollution Control Board, Assam

Rep.No. SAR_1503057_02_005 ³³⁴

Date: 18/03/2020
NABL ACCREDITED
Certificate No. TC-7669

FEB/20 (Sample ID: EETNE/FEB/15/20) & ULR NO.: TC76692000000035F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (g/kwhr)	
i)	19/02/2020	Stack attached to DG set 160 KVA	0.19	-Data is within the permissible limit

MAR/20 (Sample ID: EETNE/MAR/11/20) & ULR NO.: TC766920000000055F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (g/kwhr)	
i)	13/03/2020	Stack attached to DG set 160 KVA	0.17	-Data is within the permissible limit

Method of analysis: IS11255 Part-I

Emission Standards for Diesel Engine for generator set :

Engine Power(P)	Parameter	Standards
75KW<P≤800KW	Particulate Matter	0.2 g/kwhr

Utpal
Utpal Bezbaruah
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati



Dr. Pranita Chakraborty
(Quality Manager)
(Authorized Signatory)

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Certificate No. TC-7669

TEST REPORT

STACK ANALYSIS REPORT

Rep.No.: SAR_1503057_02_006 ³³⁶

Date: 18/03/2020

Issued to : M/s. Joyshree Cement Industries, Vill: Sila, Laxmi Nagar, Changsari, Mouza: Sila Sinduri Gupha, Dist: Kamrup(R), Assam.

Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : OCT/19 04/10/2019 TO 10/10/2019, NOV/19 28/11/2019 TO 04/12/2019, DEC/19 23/12/2019 TO 28/12/2019, JAN/20 30/01/2020 TO 05/02/2020, FEB/20 19/02/2020 TO 25/02/2020, MAR/20 13/03/2020 TO 18/03/2020
 Sampling Instrument Used : STACK KIT/FLUE GAS ANALYZER
 Pollution Control Device, if any : NO/YES
 Ambient Temperature : OCT/19 (35°C), NOV/19(32°C), DEC/19(28°C), JAN/20(21°C) FEB/20 (19°C), MAR/20(22°C)

OCT/19 (Sample ID: EETNE/OCT/04/19) & ULR NO.: TC766919000000151F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	04/10/2019	Stack attached to Bag Filter	21.4	- Bag filter is attached to control the stack emission - Necessary replacement of filters has been done.
ii)		Stack attached to Cement Mill	23.6	

NOV/19 (Sample ID: EETNE/NOV/19/19) & ULR NO.: TC766919000000189F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	28/11/2019	Stack attached to Bag Filter	19.7	- Bag filter is attached to control the stack emission - Necessary replacement of filters has been done.
ii)		Stack attached to Cement Mill	22.5	

DEC/19 (Sample ID: EETNE/DEC/13/19) & ULR NO.: TC766919000000203F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	23/12/2019	Stack attached to Bag Filter	18.9	- Bag filter is attached to control the stack emission - Necessary replacement of filters has been done.
ii)		Stack attached to Cement Mill	21.0	

JAN/20 (Sample ID: EETNE/JAN/20/20) & ULR NO.: TC76692000000021F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	30/01/2020	Stack attached to Bag Filter	20.2	- Bag filter is attached to control the stack emission - Necessary replacement of filters has been done.
ii)		Stack attached to Cement Mill	23.4	

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Recognized by Pollution Control Board, Assam

NABL ACCREDITED

Certificate No. TC-7669

Rep.No.: SAR_1503057_02_006³³

Date: 18/03/2020

FEB/20 (Sample ID: EETNE/FEB/15/20) & ULR NO.: TC76692000000035F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	19/02/2020	Stack attached to Bag Filter	17.2	- Bag filter is attached to control the stack emission - Necessary replacement of filters has been done.
ii)		Stack attached to Cement Mill	21.8	

MAR/20 (Sample ID: EETNE/MAR/11/20) & ULR NO.: TC76692000000055F

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	13/03/2020	Stack attached to Bag Filter	19.0	- Bag filter is attached to control the stack emission - Necessary replacement of filters has been done.
ii)		Stack attached to Cement Mill	22.3	

Method of analysis: IS11255 Part-I

Emission Standards :

Parameter	Standards
Particulate Matter	30mg/Nm ³

For Envision Enviro Technologies North East, Guwahati

Utpal
 Utpal Bezbaruah
 (Environmental Chemist)



Dr. Pranita Chakraborty
 (Quality Manager)
 (Authorized Signatory)

Note: i) The results relate only to the parameters tested.
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TEST REPORT:

Report No:200321_1503123_0

ULR No:TC7669200000029P

Sample ID No: EETNE/March/01/20/D

Test Starting Date: 13/03/20

Date of Report: 21/03/20

Date of sample receipt: 13/03/20

Test completion Date: 21/03/20

Name & Address of Client	M/s. Joyshree Cement Industries, Vill :Sila, Laxmi Nagar, Changsari, Mouza :Sila Sinduri Ghopa, Dist: Kamrup(R), Assam				
Sample Description	Type: Ground water	Source: well			
Sample collected by	M/s. En-vision Enviro Technologies North East				
Sample Collection Particulars	Date 13/03/2020	Time 10:25A.M	Temperature 23°C	Quantity Drawn:4L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
1	p ^H	---	6.91	APHA 23 rd Edition,4500-H ⁺ ,Page:4-95	6.5-8.5	No relaxation
2	Turbidity	NTU	0.3	APHA 23 rd Edition,2130,Page:2-13	1.0	5.0
3	TDS	mg/L	118	APHA 23 rd Edition,2540 C,Page :2-69	500	2000
4	*Total hardness	mg/L	92.5	APHA 23 rd Edition,2340 B,Page:2-48	200	600
5	Calcium	mg/L	44.0	APHA 23 rd Edition,3500-Ca B,Page:3-69	75	200
6	*Magnesium	mg/L	22.6	APHA 23 rd Edition,3500-Mg B,Page:3-86	30	100
7	Total Alkalinity	mg/L	106	APHA 23 rd Edition,2320 B,Page:2-37	200	600
8	*Chloride	mg/L	24.3	APHA 23 rd Edition,4500-Cl ⁻ B,Page:4-75	250	1000
9	*Sulphate	mg/L	11.8	APHA 23 rd Edition,4500-SO ₄ ²⁻ E,Page:4-199	200	400
10	*Nitrates	mg/L	6.5	APHA 23 rd Edition,4500-NO ₃ ⁻ B,Page:4-127	45	No relaxation
11	*Residual Chlorine	mg/L	BDL	APHA 23 rd Edition,4500-Cl B,Page:4-63	0.2	1.0





NABL ACCREDITED

Certificate No. TC-7669

Report No: 200321_1503123_0
Sample ID No: EETNE/March/01/20/D
Test Starting Date: 13/03/20


Date of Report: 21/03/20
Date of sample receipt: 13/03/20
Test completion Date: 21/03/20

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
12	*Fluoride	mg/L	0.23	APHA 23 rd Edition, 4500-F D, Page: 4-90	1.0	1.5
13	*Copper	mg/L	0.005	APHA 23 rd Edition, 3111 B, Page: 3-20	0.05	1.5 *
14	*Iron(as Fe)	mg/L	0.197	APHA 23 rd Edition, 3500-Fe B, Page: 3-80	0.3	No relaxation
15	*Cadmium	mg/L	BDL	APHA 23 rd Edition, 3111 B, Page: 3-20	0.003	No relaxation
16	*Lead(as Pb)	mg/L	BDL	APHA 23 rd Edition, 3111 B, Page: 3-20	0.01	No relaxation
17	*Zinc	mg/L	0.217	APHA 23 rd Edition, 3111 B, Page: 3-20	5	15
18	*Chromium Total	mg/L	BDL	APHA 23 rd Edition, 3111 B, Page: 3-20	0.05	No relaxation
19	*Manganese	mg/L	0.031	APHA 23 rd Edition, 3111 B, Page: 3-20	0.1	0.3
20	*Selenium	mg/L	BDL	APHA 23 rd Edition, 3114A, Page: 3-36	0.01	No relaxation
21	BOD	mg/L	9	APHA 23 rd Edition, 5210 B, Page: 5-6	--	--
22	COD	mg/L	25	APHA 23 rd Edition, 5220 B, Page: 5-18	--	--

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (BDL) Below Detection Limit.

COMMENTS: All the tested parameters are within the acceptable limit.

For Envision Enviro Technologies North East


Rimpi Sarma
Environmental Chemist
Test Done By


Dr. Pranita Chakraborty
Quality Manager
Authorized Signatory

- 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.
iii) The test marked with an (*) are not accredited by NABL.
iv) Parameter no. 13 to 20 are analyzed by Department of Chemistry, B. Borooah College as per our MOU.

End of report

ENVIRONMENTAL STATEMENT

FORM – V

Environmental Statement for the financial year ending the 31st March 2020

PART: A

- i) Name and address of the owner / occupier of the industry, Operation or process. : M/s. Joyshree Cement Industries
H/N-62,By Lane-2,Tarun Nagar,G.S Road,Guwahati-781005,Assam
- ii) Industry category : Red Category
Primary- (STC Code)
Secondary- (SIC Code)
- iii) Production capacity units : 300 TPD
- iv) Year of Establishment : 3rd Feb 2016
- v) Date of the last environmental audit report submitted. : Nil

PART : B

Water and Raw Material Consumption

(1) Water Consumption m³/day.

Process : - Nil

Boiler : - Nil

Domestic : - 5 m³/day (Domestic and Gardening Purpose)

Name of Products	Process water consumption per unit of products.	
	During the previous Financial year.	During the current Financial year.
	(1)	(2)
(1) PPC	Not Applicable	Not Applicable
(2) OPC	Not Applicable	Not Applicable

(ii) Raw Material consumption :

Name of Raw Materials	Name of products	Consumption of raw material per unit of output. (MT/MT)	
		During the previous Financial year.	During the current Financial year.
		Clinker	PPC/OPC
Fly Ash	PPC	20176.501 MT	15573.995 MT
Slag		-----	-----
Gypsum	PPC /OPC	328.840 MT	496.239MT

PART : C

Pollution Discharged to Environment/Unit of output

(Parameter as specified in the consent issued)

(i) Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/ volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	NOT APPLICABLE, AS THERE IS NO WASTEWATER GENERATION.		
(b) Air	ALL PARAMETERS ARE WELL WITHIN THE NORMS PRESCRIBED BY THE BOARD.		

PART : D

Hazardous Wastes

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes		Total Quantity (kg/ ltr.)	
		During the previous Financial year.	During the current Financial year.
(a) From Process	N.A	N.A	N.A
(b) From Pollution control facilities	N.A	N.A	N.A

PART : E

Solid Wastes

		Total Quantity (kg.)	
		During the previous Financial year.	During the current Financial year.
(a) From Process	N.A		
(b) From Pollution control facilities	N.A		
(c) (1) Quantity recycled or re-utilised	Discarded Bags	297269 Nos.	229632 Nos.
(2) Sold	N.A		
(3) Disposed	N.A		

PART : F

Please specify the characteristics (in terms of concentration and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

All the Discarded Bags generated are sent to recycler.

PART : G

Impact of the pollution control measures on conservation of natural resources and consequently on the cost of production.

Cost of consultancy & recurring cost of annual monitoring include electricity, spare and maintenance of pollution equipment: Rs. 25,00000/-(Twenty Five Lakh)only.

PART : H

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

Around Rs. 6,00000/- (Six Lakh) only For the repairing of internal road.

Around Rs. 3,00000/- (Three Lakh) only For the green belt activities.

PART : I

Miscellaneous

Any other particulates for improving the quality of the environment.

None.

Signature :

Name :

Designation :

Submitted to:

- 1. Pollution Control Board Assam**
Bamunimaidam, Guwahati-21
- 2. To, Additional Principal Chief Conservator of Forests(c)**
Ministry of Environment, Forest and Climate Change,
North Eastern Regional Office,
Law-U-Sib, Lumbatngen,
Near MTC Workshop, Shillong-793021.
Meghalaya.

From : M/s. Joyshree Cement Industries

House No. - 62, By Lane - 2, Tarun Nagar, ABC,
G.S Road,
Guwahati-781005, Assam