



TC

Ref. No.: SSC/ 116(B)/ /6802

Dated: 26th November, 2015

The Director
The Ministry of Environment & Forest
North Eastern Regional Office
Law-U-Sib, Lumbatngen
Near M.T.C. Workshop
Shillong 793021, Meghalaya

Subject : Submission of Compliance Report for the period from April 2015 to September 2015

Reference : Environmental Clearance Letter no. F.No. J-11011/856/2008-IA-II(I), Dated 03.07.2009

Dear Sir,

With reference to the above mentioned subject, please find enclosed herewith the following documents, in original:

1. Compliance Report for the period from April 2015 to September 2015: **As per Annexure A**, alongwith
 - a. Ambient Noise Level Monitoring Report (6 nos.), Stack Analysis Report (6 nos.), Ambient Air Analysis Report (1 no.), Fugitive Emission Analysis Report (1 no.): **As per Annexure I**
 - b. Environmental Statement Report for the F.Y. 2014-15: **As per Annexure II**

Kindly acknowledge the receipt of the same.

Thanking you.

Yours faithfully,
For **SHIVSHAKTI CEMENTS**

Authorised Signatory

Enclosed as above

Sir

Central Pollution Control Board
North Eastern Zonal Office,
Shillong Receipt No.....
Date:.....



C.C.: (i) The Scientist-E & Incharge, Central Pollution Control Board Shillong, Zonal Office (Tum-Sir), Lower Motinagar, Near Fire Brigade HQ, Shillong 793014

(ii) The Member Secretary, O/O The Assam Pollution Control Board, Bamunimaidam, Guwahati 781021, Assam



Ref. No.: SSC/ 116(B)/ /6802

Dated: 26th November, 2015

The Director
The Ministry of Environment & Forest
North Eastern Regional Office
Law-U-Sib, Lumbatngen
Near M.T.C. Workshop
Shillong 793021, Meghalaya

Subject : Submission of Compliance Report for the period from April 2015 to September 2015

Reference : Environmental Clearance Letter no. F.No. J-11011/856/2008-IA-II(I), Dated 03.07.2009

Dear Sir,

With reference to the above mentioned subject, please find enclosed herewith the following documents, in original:

1. Compliance Report for the period from April 2015 to September 2015: **As per Annexure A**, alongwith
 - a. Ambient Noise Level Monitoring Report (6 nos.), Stack Analysis Report (6 nos.), Ambient Air Analysis Report (1 no.), Fugitive Emission Analysis Report (1 no.): **As per Annexure I**
 - b. Environmental Statement Report for the F.Y. 2014-15: **As per Annexure II**

Kindly acknowledge the receipt of the same.

Thanking you.

Yours faithfully,
For **SHIVSHAKTI CEMENTS**


Authorised Signatory

Enclosed as above

RECEIVED


Pollution Control Board Assam
Bamunimaidam, Guwahati-21

C.C.: (i) The Scientist-E & Incharge, Central Pollution Control Board Shillong, Zonal Office (Tum-Sir), Lower Motinagar, Near Fire Brigade HQ, Shillong 793014

(ii) The Member Secretary, O/O The Assam Pollution Control Board, Bamunimaidam, Guwahati 781021, Assam

COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE
FOR THE PERIOD OF APRIL-2015 TO SEPTEMBER-2015

Name of The Company : M/s. Shivshakti Cements

Project : Cement Plant (200 TPD) at 15th Mile G.S Road, NH-40, Village Byrnihat, Taluk-Sonapur, District- Kamrup, Assam.

Environmental Clearance Letter : F.No. J-11011/856/2008-IA-II(I), Dated 03.07.2009

PART A - SPECIFIC CONDITIONS:

NO.	CONDITIONS	COMPLIANCE STATUS
(i)	The stack emissions from various sources shall not exceed 50 mg/ Nm ³	Stack emissions are less than 50 mg/Nm ³ according to the monthly monitoring report. Monitoring reports is enclosed as Annexure-I .
(ii)	Reverse pulse jet type bag filter to the lime stone crusher, blending silo & cement mill and twin cyclone separator followed by reverse pulse jet type bag filter to raw mill shall be provided to control the emission below the prescribed standards. Adequate arrangement shall be provided for control of the fugitive emissions during loading and unloading. The project authorities shall store all the raw materials except limestone in the covered sheds to control fugitive emissions.	-Reverse Pulse Jet type Bag filter installed at a) Crusher b) Raw mill c) Additive Hopper d) blending Silo & Cement Mill -Water sprinkling, tree plantation has been done in the plant premises along with the road side to mitigate the fugitive emissions. -All the raw materials except Limestone is kept in covered shed. a) Coke Breeze is stored in covered shed. b) Mill Scale is stored in covered shed. c) Clay is stored in covered shed. d) Limestone is stored in open storage yard.
(iii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including monitored data on their website and shall update on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPC. The criteria pollutant namely; SPM, RSPM, SO ₂ , NO _x (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at the convenient location near the main gate of the Company in the public domain.	-Complied with. We have been uploaded point wise reply of EC compliance including monitoring data are uploaded in our website i.e. www.hmggroup.net.in and also send to concerned authorities. -The monitored data has been displayed near the main gate of the factory.
(iv)	The locations of ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Assam Pollution Control Board(Assam PCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Complied with.
(v)	Total water requirement shall not exceed 33 m ³ /day and prior 'Permission' for the drawl of	-Total water required is not more than 33 m ³ /day. -Permission for drawl of ground water is not

NO.	CONDITIONS	COMPLIANCE STATUS
	ground water shall be obtained from the SGWB/CGWA and copy of the permission shall be submitted to Ministry's Regional Office at Shillong within 3 months from the date of receipt of this letter. Domestic sewage shall be treated and utilised for the greenbelt development. No waste shall be discharged outside the premises and 'zero' discharge shall be ensured.	required as advised by CGWA. This is further documented in the ministry's website - http://cgwb.gov.in/gw_profiles/st_assam.htm . -Domestic sewage is stored in an underground septic tank & the discharge is towards the gardening area (soak pit).
(vi)	The project authority shall transport the raw material and the product in covered means.	Complied with, The raw material is being carried in covered means. The finished product is being packed in HDPE bags & carried in covered vehicles.
(vii)	Out of total 1927 m ² , 33% area shall be developed as green belt as per the guidelines of Central Pollution Control Board to mitigate the effect of fugitive emissions.	Afforestation activities have already been started to mitigate fugitive emissions as per advice from CPCB .Total 60 nos. trees planted in the plant area up to September'15.
(viii)	The project authorities shall provide a health center with all emergency medicines and ambulance along with full time doctor. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	Complied With. A health center is provided with emergency medicines. An Ambulance is kept at the factory site. - A tie up with a doctor is already undertaken for regular health check up & occupational health surveillance programme is carried out in regular intervals & the records will be maintained in the factories act register.
(ix)	All the recommendations mentioned in the CREP guidelines for cement plant shall be followed and complied.	Complied, All the recommendations mentioned in the CREP guidelines is being followed.
(x)	The company shall comply with all the commitments made during public hearing held on 7 th May, 2009	Complied with.
(xi)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied with.

PART - B. GENERAL CONDITIONS:

NO.	CONDITIONS	COMPLIANCE STATUS
(i)	All other necessary statutory clearances from the concerned Departments including 'No Objection Certificate' from Assam Pollution Control Board (APCB) shall be obtained prior to commencement of construction and/ or operation.	"Consent for Establishment" was obtained from Assam State Pollution Control Board vide letter no. WB/GUW/T-1340/08-09/213/154 dated 6/6/2009.
(ii)	The project authorities shall strictly adhere to,	Strictly adhering to the stipulation of the

NO.	CONDITIONS	COMPLIANCE STATUS
	the stipulations of the SPCB/state government or any statutory body.	SPCB/State Government.
(iii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposals from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Agreed with.
(iv)	At no time, the emissions shall exceed the prescribed limits. 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 restarted until the desired efficiency has been achieved.	Agreed with.
(v)	The gaseous emissions (SO ₂ , NO _x) and particulate matter along with RSPM levels from various process units shall be conform to the standards prescribed by the concerned authorities from time to time.	The gaseous emissions (SO ₂ , NO _x) & particulate matter always confirm to standards fixed by CPCB and the Ambient Air monitoring report is enclosed as Annexure-I .
(vi)	<p>The company shall undertake following Waste Minimization measures.</p> <ul style="list-style-type: none"> ➤ Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. ➤ Use of "Closed pneumatic" system for transport of fine material. ➤ All venting systems shall be connected with dust arresting equipments. ➤ Dust collect in pollution control equipments shall be reused. 	<p>The company follows the waste minimization measures.</p> <ul style="list-style-type: none"> -No by product is produced from the process. -The company uses cement bags (HDPE) to transport fine cement material. -All venting systems are connected with dust arresting equipments. -Dust collected in Pollution Control equipments is reused in the process.
(vii)	Fugitive emissions in the work zone environment, product, and raw material storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.	We have been taken all necessary action for controlling fugitive emission at various locations in process like planting trees along the internal roads of the plant site, installation of dust collectors at all the materials transfer points, water spray system, covered clinker storage silo, fly ash storage in silo, water sprinkling at limestone unloading points. Regular sprinkling of water on roads. For fugitive monitoring report refer as Annexure-I .
(viii)	The overall noise levels in and around the plant area shall be kept well within the standards 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 Environment(Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	<ul style="list-style-type: none"> -The noise levels in & around the plant area is kept well within the standards. -The ambient noise levels conform to the standards prescribed under Environment (Protection) act 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). Monitoring report are enclosed as Annexure-I.

NO.	CONDITIONS	COMPLIANCE STATUS
(ix)	The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.	The company has adapted Rain Water Harvesting.
(x)	Occupational health and safety measures shall be undertaken. Periodic monitorial for exposure to dust on the workers should be conducted and records maintained including health records of the workers. The company shall engage a doctor who is trained in occupational health.	The company has tied up with a doctor for Occupational Health & Safety Measures Periodic Monitoring are be done for the workers & records are be maintained.
(xi)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-developmental plan should be submitted to the SPCB within three months of receipt of this letter for approval.	Green belt has been developed in and around the project. We are also planting trees continuously. We do undertake eco-development measures in the project are planting natural habitat trees which grow in our places.
(xii)	A separate Environment Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.	-An Environment Management Cell/ Committee are formed. - Further, we have already availing the service of Assam Pollution Control Board recognize monitoring agency for the routine environmental monitoring services.
(xiii)	Adequate fund shall be earmarked to implement the conditions stipulated by the ministry of Environment and Forests as well as the State Government. An implementation schedule for all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Shillong. The funds so provided shall not be diverted for any other purpose.	-Fund allocation is done. -The funds projected will not be directed for other purposes.
(xiv)	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/ SPCB/ CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	Six monthly compliance report (April 2015 to September 2015) is submitted herewith & also its uploaded on company's website i.e www.hmgroun.net.in
(xv)	The project proponent shall also submit six monthly reports on the status of the compliances of the stipulated EC conditions including results of monitored data (both on hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CCB and the SPCB.	We are regularly submitting six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data to respective agencies as stipulated.
(xvi)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat,Zila Parishad/ Municipal Corporation, Urban Local Body and Local NGO, if any, from whom suggestions/representations if any, were received while processing the proposal. The clearance letter shall also put up on the	The EC letter was sent to the local authority for information & also published in local news paper. The clearance letter was put on our company's website i.e. www.hmgroun.net.in

NO.	CONDITIONS	COMPLIANCE STATUS
	website of the company by the proponent.	
(xvii)	The environment statement for each financial year ending 31st March in Form- V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective regional Office of the Ministry of Environment and Forests by E-mail.	Environment Statement report in Form-V for financial year ending on 31st March' 2015 attached as per Annexure-II .
(xviii)	The project proponent shall inform the public that the project has been accorded environment clearance by the ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at http://envfor.nic.in . this shall be advertised within seven days from the date of issue of the clearance letter, at least in two local 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 concerned Regional Office of the Ministry.	Complied with. The company had advertised the grant of Environment Clearance Certificate in 2 local newspapers (one in Assamese & one in English) & the same is already forwarded to The Ministry of Environment & Forests, Delhi and Regional Office of Ministry.
(xix)	The project authorities shall inform the Regional Office as well as the Ministry, the date of the financial closure and final approval of the project by the concerned authorities and the date of start of the project.	The plant is under commercial production since 21-01-2010.

Recognized by Pollution Control Board, Assam

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 150409_14010006_06A_904 ²⁰¹⁵

Date: 09/04/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	06/04/15	Near Main Gate	67.3
ii)		Near Cement Mill	68.6

Remarks: Noise level are carried out during day time.

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

Envision Enviro Technologies North East, Guwahati.



(Quality Control Manager)

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.

STACK ANALYSIS REPORT

Rep.No.: 150410_14010006_02_905 ²⁹⁸

Date: 10/04/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	06/04/15	Stack attached to twin cyclone separator followed by Reverse Pulse Jet Type Bag Filter	37.2	-Production capacity of the cement plant is 200 TPD. - Bag filter is attached to Cement mill.

Emission Standards :

Parameter	Standards
Particulate Matter	50mg/Nm ³

Envision Enviro Technologies North East, Guwahati


(Quality Control Manager)

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

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 150528_14010006_06A_933 ²³⁸

Date: 28/05/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	25/05/15	Near Main Gate	66.7
ii)		Near Cement Mill	69.0

Remarks: Noise level are carried out during day time.

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

Envision Enviro Technologies North East, Guwahati.



(Quality Control Manager)

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.

STACK ANALYSIS REPORT

Rep.No.: 150528_14010006_02_934 ²³⁹

Date: 28/05/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	25/05/15	Stack attached to twin cyclone separator followed by Reverse Pulse Jet Type Bag Filter	43.0	-Production capacity of the cement plant is 200 TPD. - Bag filter is attached to Cement mill.

Emission Standards :

Parameter	Standards
Particulate Matter	50mg/Nm ³

Envision Enviro Technologies North East, Guwahati



(Quality Control Manager)

- 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

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 150623_14010006_06A_963 ²³⁸

Date: 23/06/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	20/06/15	Near Main Gate	65.9
ii)		Near Cement Mill	67.4

Remarks: Noise level are carried out during day time.

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

Envision Enviro Technologies North East, Guwahati.



(Quality Control Manager)

- 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.

STACK ANALYSIS REPORT

Rep.No.: 150623_14010006_02_964 ²³⁸

Date: 23/06/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	20/06/15	Stack attached to twin cyclone separator followed by Reverse Pulse Jet Type Bag Filter	38.6	-Production capacity of the cement plant is 200 TPD. - Bag filter is attached to Cement mill.

Emission Standards :

Parameter	Standards
Particulate Matter	50mg/Nm ³

Envision Enviro Technologies North East, Guwahati


(Quality Control Manager)

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

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 150714_14010006_06A_007 ²⁹⁸

Date: 14/07/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	11/07/15	Near Main Gate	66.4
ii)		Near Cement Mill	68.8

Remarks: Noise level are carried out during day time.

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

Envision Enviro Technologies North East, Guwahati.



(Quality Control Manager)

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.

STACK ANALYSIS REPORT

Rep.No.: 150714_14010006_02_008 ²⁹⁸

Date: 14/07/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	11/07/15	Stack attached to twin cyclone separator followed by Reverse Pulse Jet Type Bag Filter	41.3	-Production capacity of the cement plant is 200 TPD. - Bag filter is attached to Cement mill.

Emission Standards :

Parameter	Standards
Particulate Matter	50mg/Nm ³

Envision Enviro Technologies North East, Guwahati



(Quality Control Manager)

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

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 150903_14010006_06A_057 ²⁹⁸

Date: 03/09/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	31/08/15	Near Main Gate	68.9
ii)		Near Cement Mill	70.5

Remarks: Noise level are carried out during day time.

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

Envision Enviro Technologies North East, Guwahati.



(Quality Control Manager)

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.

STACK ANALYSIS REPORT

Rep.No.: 150903_14010006_02_058 ²³⁸

Date: 03/09/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	31/08/15	Stack attached to twin cyclone separator followed by Reverse Pulse Jet Type Bag Filter	38.6	-Production capacity of the cement plant is 200 TPD. - Bag filter is attached to Cement mill.

Emission Standards :

Parameter	Standards
Particulate Matter	50mg/Nm ³

Envision Enviro Technologies North East, Guwahati



(Quality Control Manager)

- 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.

AMBIENT AIR ANALYSIS REPORT

Rep.No. 150916_14010006_01_102 ²³⁸

Date: 16/09/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS			
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO _x (µg/m ³)	SO ₂ (µg/m ³)
i)	12/09/15	Near Push feeder of the Cement Plant- (middle point of the plant)	Clear	58.7	29.1	7.4	5.6
ii)		Near Roof top of office cum laboratory)- (north side of the Cement plant)		62.3	35.8	11.9	7.1

Remarks: - Parameters are within the permissible limit.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural and Other Area	
1	Sulphur Dioxide (SO ₂) µg/m ³	24 hours		80
2	Nitrogen Dioxide (NO _x), µg/m ³	24 hours		80
3	Particulate Matter (PM ₁₀), µg/m ³	24 hours		100
4	Particulate Matter (PM _{2.5}), µg/m ³	24 hours		60

Envision Enviro Technologies North East, Guwahati



(Quality control Manager)

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

FUGITIVE EMISSION ANALYSIS REPORT

Rep.No.: 150916_14010006_04_103 ²³⁸

Date: 16/09/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (PM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	12/09/15	Near Packing Yard	547	-Water spraying is done to control the fugitive emission.
ii)		Near Storage Yard	613	-All materials are stored in closed sheds to mitigate fugitive emission.

Envision Enviro Technologies North East, Guwahati



(Quality control Manager)

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

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 150916_14010006_06A_104 ²³⁸

Date: 16/09/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	12/09/15	Near Main Gate	66.4
ii)		Near Cement Mill	68.9

Remarks: Noise level are carried out during day time.

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

Envision Enviro Technologies North East, Guwahati.



(Quality Control Manager)

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.

STACK ANALYSIS REPORT

Rep.No.: 150916_14010006_02_105
228

Date: 16/09/2015

Name & Address:

M/s. Shivshakti Cements
15th Mile, G.S. Road, NH-40,
Vill: Byrnihat, Taluk- Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	12/09/15	Stack attached to twin cyclone separator followed by Reverse Pulse Jet Type Bag Filter	43.4	-Production capacity of the cement plant is 200 TPD. - Bag filter is attached to Cement mill.

Emission Standards :

Parameter	Standards
Particulate Matter	50mg/Nm ³

Envision Enviro Technologies North East, Guwahati



(Quality Control Manager)

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.

ENVIRONMENTAL STATEMENT

FROM – V

(See rule 14)

Environmental Audit Report for the financial year ending the 31st March 2015

PART: A

- i) Name and address of the owner / occupier of the industry, Operation or process. : **M/s. Shivshakti Cements**
1st Floor, H.M. Towers,
Pan Bazar, Guwahati-01
Dist.: Kamrup, Assam.
- ii) Industry category : Orange Category
Primary- (STC Code)
Secondary- (SIC Code)
- iii) Production capacity units : 200 MT Per day
- iv) Year of Establishment : 2010
- v) Date of the last environmental audit report submitted. : 01.12.2014

PART : B
Water and Raw Material Consumption

(1) Water Consumption m³/day.

Process : - 10m³/day

Boiler : - Nil

Domestic : - 5 m³/day

Name of Products	Process water consumption per unit of products.	
	During the previous Financial year.	During the current Financial year.
	(1)	(2)
(1) PPC	Nil	Nil
(2) OPC	Nil	Nil

(ii) Raw Material consumption :

Name of Raw Materials	Name of products	Consumption of raw material (MT/MT)	
		During the previous Financial year.	During the current Financial year.
Clay	PPC & OPC	108.350	0.000
Coke Breeze		68.950	0.000
Fly Ash		10107.640	1386.420
Gypsum		343.130	199.370
Iron Dust		29.550	0.000
Limestone		770.000	0.000
Clinker (Bought Out)		23148.680	6799.210

PART : C

Pollution Generated

(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.		

There will be no waste water generated due to the process, Only the domestic wastewater is being generated of 15 KL/Day. Domestic sewage is stored in an underground septic tank & the discharge is towards the gardening area (soak pit).

(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.)	
	During the previous Financial year.	During the current Financial year.
(a) From Process	NOT APPLICABLE	
(b) From Pollution control facilities		

PART : E

Solid Wastes

	Total Quantity (kg.)	
	During the previous Financial year.	During the current Financial year.
(a) From Process	NIL	
(b) From Pollution control facilities		
(c) (1) Quantity recycled or re-utilised		
(2) Sold		
(3) Disposed		

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 HDPE Discarded Bags generated are return to suppliers. Hazardous waste is used oil. Used oil generated is 115 Ltrs only. It is stored to be sold to authorized dealer.

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: `1,00,000/- [Rupees One Lakh]

PART : H

Additional investment proposal for environmental protection including abatement of pollution.

Around ₹50,000/- [Rupees Fifty Thousand] For F.Y. 2015-16

PART : I

Miscellaneous

Any other particulates in respect of environmental protection and abatement of pollution.

None.

For SHIVSHAKTI CEMENTS



Partner

Signature :

Name : Mr. Prithu Jhunjunwala

Designation : Partner

Date : 26.11.2015

Submitted to:

1. **Pollution Control Board Assam**
Bamunimaidam, Guwahati-21
2. **Ministry of Environment, Forest and Climate Change**
North Eastern Regional Office,
Law-U-Sib, Lumbatngen,
Near MTC Workshop, Shillong-793021.
Meghalaya.

From : **M/s. Shivshakti Cements,**
1st Floor, H.M. Tower,
Pan Bazar, Guwahati-01
Dist.: Kamrup, Assam.