

REPORT OF ENVIRONMENTAL CLEARANCE
FOR THE PERIOD OF OCTOBER-2015 TO MARCH-2016

Name of The Company: M/s. Topcem India

Project : Cement Grinding Unit (OPC/PPC, 0.66 MTPA) at P.O. Gauripur, District Kamrup Rural, Assam

Environmental Clearance Letter: F.No. J-11011/608/2009-IA II (I), Dated July 22, 2010.

Amendment Environmental Clearance Letter: of F.No. J-11011/608/2009-IA II (I), Dated 2nd June, 2011.

A. Specific conditions: -

S.N.	CONDITIONS	REMARKS
i.	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. Particulate emissions shall be controlled within 50 mg/Nm ³ by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air Quality, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Shillong, Assam State Pollution Control Board (ASPCB) and CPCB regularly.	<ul style="list-style-type: none"> - We have already installed online monitoring device and continuous monitoring the gaseous emissions. The server Linkup has been completed and the SPM data is live on CPCB server (http://202.191.230.91/) & coming to State PCB also. - Reverse pulse jet type Bag filter to tunnel ventilation, mill & classifier venting, Silo, Cement packing, etc. as pollution control equipment is provided. - Particulate emissions are within 50 mg/Nm³. - We have obtained Consent to Operate (CTO) for the year 2015-16 from the board under, Air Act-1981 vide APCB letter no.: WB/GUW/T-1241/Pt-I/12-13/99-A/28 dated 09/04/15. - Monitored data of ambient air, fugitive and stack emission is submitted regularly. Monitoring report is enclosed as Annexure-I.
ii.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No.: 826(E), dated: 16 th November, 2009 should be followed.	We are following the National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No.: 826(E), dated: 16 th November, 2009 and accordingly monitoring is carried out.
iii.	Gaseous emission levels including 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 should be followed	We are controlling fugitive emission from all the sources within the latest permissible limits issued by the MoEF guidelines using Bag filters & water spraying and also regularly monitored. Refer Annexure-I .

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S.N.	CONDITIONS	REMARKS
iv.	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyers should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials should be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	<ul style="list-style-type: none"> - We have provided the reverse pulse jet type bag filter system to control the fugitive emission. - Covered storage is provided for fly ash and gypsum. For Clinker RCC Silo is provided. - All conveyers are covered with GI sheets.
v.	Asphalting/concreting of roads and water spray all around the stock-yard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	<ul style="list-style-type: none"> - 70% work for concreting of road is completed and rest is under process. The Work has stopped due to rain. We ensure that we spray water regularly around loading/unloading areas and internal road in the cement grinding unit. The Concreting road photograph is attached here in Annexur-6. - We are measuring Ambient air quality. Monitoring reports are enclosed as Annexure-I.
vi.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored.	We have taken all precautions to reduce impact of transport of raw material etc in the surrounding environment including agricultural land. Such as Fly ash is transported in closed container, internal roads of plant are paved and regular sprinkling of water is being done on roads. We have separate parking areas for trucks. However PUC certificate of our vehicles enclosed as Annexure-2
vii.	Total water requirement for cement plant from bore wells shall not exceed 50m ³ /day. All the treated wastewater shall be recycled and reused in the process and/ or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and zero discharge shall be adopted.	<ul style="list-style-type: none"> - Total water requirement does not exceed 50m³/day. - Being a Zero Discharge unit no waste water is generated. - Sewage Treatment Plant has been constructed. Photographs is enclosed as Annexure-3
viii.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Rain water harvesting system has constructed for conservation of rain water. Photographs is enclosed as Annexure-4
ix.	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / reproprocessors only.	Dust from the pollution control devices is recycled and reused in the cement manufacturing process. Spent oil reused in the plant machineries for lubrication.
x.	Green belt shall be developed in an area of 6.6 acres. In and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	We are developing the green belt inside the plant premises to mitigate the effects of air and fugitive emissions. The copy of letter for consultation with local DFO is attached here with as Annexure-5 . Photograph of Plantation is attached herewith as Annexure 6 .

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S.N.	CONDITIONS	REMARKS
xi.	All the recommendations made in the Chapter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.	All the CREP conditions for the Cement plants are implemented and followed.
xii.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Shillong, ASPCB and CPCB within 3 months of issue of Environment Clearance letter.	Complied with.
xiii.	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item - wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Shillong. Implementation of such program should be ensured accordingly in a time bound manner.	Item-wise details along with time bound action plan is prepared and already submitted to the Regional Office of the MoEF at Shillong. Accordingly Corporate Social responsibility activities are being followed with.
xiv.	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.

B. General Conditions:

S. N.	CONDITIONS	STATUS
i.	The project authorities must strictly adhere to the stipulations made by the Assam State Pollution Control Board and the State Government	Agreed with. We are complying with all the stipulation made by the Assam State Pollution Control Board and the State Government.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Prior approval of the Ministry of Environment and Forests will be taken for further expansion or modifications in the plant, if any.
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Agreed with. Monitoring reports are enclosed as Annexure-I .
iv.	At least four ambient air quality monitoring Stations should be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Shillong and the SPCB/CPCB once in six months.	<ul style="list-style-type: none"> - Four ambient air quality monitoring locations are selected in consultation with Pollution Control Board where monitoring is being carried out. - Data on ambient air quality and stack emission are enclosed as Annexure-1.
v.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Being a zero discharge unit no industrial waste water is generated. The construction work of Sewage treatment plant has been completed and now we are using it. The treated wastewater is used for plantation and other purpose.
vi.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers,	We have undertaken all the measures and ensure that noise levels remain within the limit. Noise monitoring

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S. N.	CONDITIONS	STATUS
	enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	reports are enclosed as Annexure-1 .
vii.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is being carried out on regular basis and records are maintained as per the Factories Act. Some of health checkup reports of employees is enclosed as Annexure-7
viii.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain water harvesting structures are completed. Photograph has enclosed in Annexure-4
ix.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We are complying the protection measures and safeguards recommended in the EIA/EMP report and community development programmes are initiated in the area.
x.	Requisite amount of funds shall be earmarked for the environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Shillong. The funds so provided shall not be diverted for any other purpose.	Complied with.
xi.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	<ul style="list-style-type: none"> - No such suggestions/ representations from concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO were received while processing the proposal. - The clearance letter is uploaded on our company website i.e www.topcem.in
xii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Shillong. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<ul style="list-style-type: none"> -Status of the compliance of the stipulated environment clearance condition including monitoring data are uploaded in our website i.e. www.topcem.in and also sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. -The purchase process of new electronic equipment for display of monitored data is under process.
xiii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Shillong/ CPCB / SPCB shall monitor the stipulated conditions.	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.

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S. N.	CONDITIONS	STATUS
xiv.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Shillong by e-mail.	The environmental statement for the financial year 2015-16 is enclosed as Annexure-8
xv.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Shillong.	Complied with.
xvi.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied with.
8.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed with.
9.	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Agreed with.
10.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under section 11 of the National Environment Appellate Act-1997.	Agreed with.
11.	The above condition shall be enforced, inter alia under the provisions of the Water Act-1974, Air Act-1981 and Hazardous Waste (M&H) and Transboundary movement Rules-2008 and the Public (Insurance) Liability Act-1991 along with their amendments and Rules.	Agreed with.

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Recognized by Pollution Control Board, Assam.

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 151027_12040009_06A_206/402

Date: 27/10/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	22/10/15	1500 KVA DG Set-1	73.4
ii)		1500 KVA DG Set-2	73.1
iii)	23/10/15	1500 KVA DG Set-3	72.6
iv)		1500 KVA DG Set-4	74.0

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

DG Set Noise Standards:

Noise limit viz. 75 dB(A) at 1m distance.

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 NOISE LEVEL MEASUREMENT REPORT

Rep.No. 151027_12040009_06A_207/402

Date: 27/10/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	22/10/15	Towards North-West Direction	65.8
ii)		Towards North-East Direction	67.0
iii)	23/10/15	Near Packing Plant	68.2
iv)		Near Cement Mill	68.4

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
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STACK ANALYSIS REPORT

Rep.No. 151027_12040009_02_208/402

Date: 27/10/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	22/10/15	Stack attached DG Set 1500 KVA - 1	54.0	-All DG sets are with acoustic enclosure.
ii)		Stack attached DG Set 1500 KVA - 2	51.6	
iii)	23/10/15	Stack attached DG Set 1500 KVA - 3	52.8	
iv)		Stack attached DG Set 1500 KVA - 4	50.4	

Emission Standards :

Parameter	Standards
Particulate Matter	75 mg/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

STACK ANALYSIS REPORT

Rep.No. 151027_12040009_02_209/402

Date: 27/10/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	22/10/15	Stack attached to Cement Mill	18.9	- Production capacity of the cement plant is 0.66 MTPA. - 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.

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 151110_12040009_06A_280 /403

Date: 10/11/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	05/11/15	1500 KVA DG Set-1	72.6
ii)		1500 KVA DG Set-2	73.4
iii)	06/11/15	1500 KVA DG Set-3	71.1
iv)		1500 KVA DG Set-4	70.7

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

DG Set Noise Standards:

Noise limit viz. 75 dB(A) at 1m distance.

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 NOISE LEVEL MEASUREMENT REPORT

Rep.No. 151110_12040009_06A_281/403

Date: 10/11/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	05/11/15	Towards North-West Direction	65.3
ii)		Towards North-East Direction	66.7
iii)	06/11/15	Near Packing Plant	68.4
iv)		Near Cement Mill	69.2

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.

STACK ANALYSIS REPORT

Rep.No. 151110_12040009_02_282 *402*

Date: 10/11/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	05/11/15	Stack attached DG Set 1500 KVA - 1	51.7	-All DG sets are with acoustic enclosure.
ii)		Stack attached DG Set 1500 KVA - 2	53.4	
iii)	06/11/15	Stack attached DG Set 1500 KVA - 3	49.6	
iv)		Stack attached DG Set 1500 KVA - 4	53.9	

Emission Standards :

Parameter	Standards
Particulate Matter	75 mg/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

STACK ANALYSIS REPORT

Rep.No. 151110_12040009_02_283

Date: 10/11/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	05/11/15	Stack attached to Cement Mill	21.4	- Production capacity of the cement plant is 0.66 MTPA. - 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)

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Recognized by Pollution Control Board, Assam.

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 151229_12040009_06A_409

/404

Date: 29/12/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	25/12/15	1500 KVA DG Set-1	73.6
ii)		1500 KVA DG Set-2	71.9
iii)	26/12/15	1500 KVA DG Set-3	72.5
iv)		1500 KVA DG Set-4	71.2

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

DG Set Noise Standards:

Noise limit viz. 75 dB(A) at 1m distance.

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 NOISE LEVEL MEASUREMENT REPORT

Rep.No. 151229_12040009_06A_410/402

Date: 29/12/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	25/12/15	Towards North-West Direction	66.0
ii)		Towards North-East Direction	67.2
iii)	26/12/15	Near Packing Plant	67.9
iv)		Near Cement Mill	68.5

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
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STACK ANALYSIS REPORT

Rep.No. 151229_12040009_02_411/402

Date: 29/12/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	25/12/15	Stack attached to DG Set 1500 KVA - 1	48.7	-All DG sets are with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA -2	51.9	
iii)	26/12/15	Stack attached to DG Set 1500 KVA -3	50.5	
iv)		Stack attached to DG Set 1500 KVA -4	52.3	

Emission Standards :

Parameter	Standards
Particulate Matter	75 mg/Nm ³

Envision Enviro Technologies North East, Guwahati



(Quality Control Manager)

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

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Recognized by Pollution Control Board, Assam

STACK ANALYSIS REPORT

Rep.No. 151229_12040009_02_412 / 404

Date: 29/12/2015

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	25/12/15	Stack attached to Cement Mill	20.3	- Production capacity of the cement plant is 0.66 MTPA. - 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
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Recognized by Pollution Control Board, Assam.

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 160203_12040009_06A_481

Date: 03/02/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	29/01/16	1500 KVA DG Set-1	72.8
ii)		1500 KVA DG Set-2	73.6
iii)	30/01/16	1500 KVA DG Set-3	70.9
iv)		1500 KVA DG Set-4	69.4

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

DG Set Noise Standards:

Noise limit viz. 75 dB(A) at 1m distance.

Envision Enviro Technologies North East, Guwahati.



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 NOISE LEVEL MEASUREMENT REPORT

Rep.No. 160203_12040009_06A_482 /405

Date: 03/02/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	29/01/16	Towards North-West Direction	67.1
ii)		Towards North-East Direction	67.6
iii)	30/01/16	Near Packing Plant	68.3
iv)		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.

STACK ANALYSIS REPORT

Rep.No. 160203_12040009_02_483 /405

Date: 03/02/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	29/01/16	Stack attached to DG Set 1500 KVA - 1	50.7	-All DG sets are with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA -2	48.9	
iii)	30/01/16	Stack attached to DG Set 1500 KVA -3	52.2	
iv)		Stack attached to DG Set 1500 KVA -4	51.4	

Emission Standards :

Parameter	Standards
Particulate Matter	75 mg/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

STACK ANALYSIS REPORT

Rep.No. 160203_12040009_02_484/405

Date: 03/02/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	29/01/16	Stack attached to Cement Mill	19.9	- Production capacity of the cement plant is 0.66 MTPA. - Bag filter is attached to Cement mill.

Emission Standards :

Parameter	Standards
Particulate Matter	50mg/Nm ³

Envision Enviro Technologies North East, Guwahati



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.

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 160217_12040009_06A_565-515

Date: 17/02/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	12/02/16	1500 KVA DG Set-1	71.4
ii)		1500 KVA DG Set-2	72.7
iii)	13/02/16	1500 KVA DG Set-3	71.8
iv)		1500 KVA DG Set-4	70.5

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

DG Set Noise Standards:

Noise limit viz. 75 dB(A) at 1m distance.

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 NOISE LEVEL MEASUREMENT REPORT

Rep.No. 160217_12040009_06A_566/5

Date: 17/02/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	12/02/16	Towards North-West Direction	66.8
ii)		Towards North-East Direction	67.2
iii)	13/02/16	Near Packing Plant	67.9
iv)		Near Cement Mill	68.7

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.



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.

STACK ANALYSIS REPORT

Rep.No. 160217_12040009_02_567 ⁵⁷⁵

Date: 17/02/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	12/02/16	Stack attached to DG Set 1500 KVA - 1	47.6	-All DG sets are with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA - 2	50.1	
iii)	13/02/16	Stack attached to DG Set 1500 KVA - 3	53.7	
iv)		Stack attached to DG Set 1500 KVA - 4	49.2	

Emission Standards :

Parameter	Standards
Particulate Matter	75 mg/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

STACK ANALYSIS REPORT

Rep.No. 160217_12040009_02_568

Date: 17/02/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	12/02/16	Stack attached to Cement Mill	21.3	- Production capacity of the cement plant is 0.66 MTPA. - 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. 160305_12040009_01_633

Date: 05/03/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

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 _x ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)
i)	01/03/16	Near Highways & Truck Parking	Clear	74.2	36.5	11.1	8.7
ii)		Near Workshop & Staff Quarter		70.9	33.1	9.2	5.5
iii)	02/03/16	Near Switch Yard		67.3	31.8	7	4.3
iv)		Near Truck Tippler		72.6	34.3	9.7	6.2

Remarks: - All 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) $\mu\text{g}/\text{m}^3$	24 hours	80
2	Nitrogen Dioxide (NO ₂) $\mu\text{g}/\text{m}^3$	24 hours	80
3	Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	24 hours	100
4	Particulate Matter (PM _{2.5}), $\mu\text{g}/\text{m}^3$	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. 160305_12040009_04_634/516

Date: 05/03/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (PM) ($\mu\text{g}/\text{m}^3$)	Remarks
i)	02/03/16	Near Main Gate	879	-Water spraying is done to control the fugitive emission.
ii)		Near Fly Ash Yard	924	-All materials are stored in closed sheds to mitigate fugitive emission.

Envision Enviro Technologies North East, Guwahati



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.

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 160305_12040009_06A_635

Date: 05/03/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	01/03/16	1500 KVA DG Set-1	72.8
ii)		1500 KVA DG Set-2	69.3
iii)	02/03/16	1500 KVA DG Set-3	73.5
iv)		1500 KVA DG Set-4	71.0

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

DG Set Noise Standards:

Noise limit viz. 75 dB(A) at 1m distance.

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 NOISE LEVEL MEASUREMENT REPORT

Rep.No. 160305_12040009_06A_636

Date: 05/03/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	LOCATION / SOURCE	NOISE LEVEL in dB(A)Leq
i)	01/03/16	Towards North-West Direction	67.8
ii)		Towards North-East Direction	68.2
iii)	02/03/16	Near Packing Plant	68.6
iv)		Near Cement Mill	69.1

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.

STACK ANALYSIS REPORT

Rep.No. 160305_12040009_02_637

Date: 05/03/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	01/03/16	Stack attached to DG Set 1500 KVA - 1	51.9	-All DG sets are with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA -2	48.7	
iii)	02/03/16	Stack attached to DG Set 1500 KVA -3	49.0	
iv)		Stack attached to DG Set 1500 KVA -4	53.2	

Emission Standards :

Parameter	Standards
Particulate Matter	75 mg/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

STACK ANALYSIS REPORT

Rep.No. 160305_12040009_02_638/16

Date: 05/03/2016

Name & Address:

M/s. Topcem India
Gauripur, North Guwahati
Dist: Kamrup(R), Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	02/03/16	Stack attached to Cement Mill	19.6	- Production capacity of the cement plant is 0.66 MTPA. - 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.