

TOPCEM INDIA

Correspondence Office:
Mega Plaza, 5th Floor, Christian Basti
G.S. Road, Guwahati - 781005, Assam
Tel.: 0361 2345428/29, 18001233666
E-mail: mail@topcem.in Fax: 03612345419

Ref: TI/MEF/0A159

Date: 16.11.2017

To,
Member Secretary,
Pollution Control Board, Assam
Bamunimaidam, Guwahati- 21

SUB.: Submission of Post EC Compliance Report in respect of Cement Grinding Unit (OPC/PPC, 0.66 MTPA) at P.O. Gauripur, District Kamrup Rural, Assam

REF.: ENVIRONMENTAL CLEARANCE LETTER F.No. No. J-11011/608/2009-IA II (I), Dated July 22, 2010.
Amendment of Environmental Clearance Letter: No. J-11011/608/2009-IA II (I), Dated 2nd June, 2011.

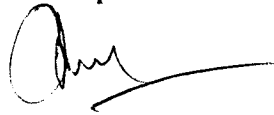
Dear Sir,

With reference to the Environmental Clearance obtained from MoEF we are hereby enclosing the Six Monthly Compliance Report for the period April'2017 to September'2017 of Environmental Clearance issued to us.

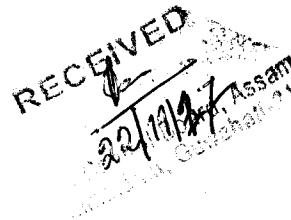
I hope that you will find it in order and do the needful.

Thanking You.

Yours faithfully,
For M/s. Topcem India



(Partner)



Copy to:

1. The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest & Climate Change,
North Eastern Regional Office
Law-U-Sib, Lumbatngen
Near MTC Workshop, Shillong-793021
2. To The Zonal Office Central Pollution Control Board, Shillong
Sh. Zawthanglien Changsan (Scientist 'E' and Incharge)
"TUM_SIR" Lower Motinagar
Near Fire Brigade H.Q- Shillong-793014

**REPORT OF ENVIRONMENTAL
CLEARANCE
FOR THE PERIOD OF 1ST APRIL-
2017 TO 30Th SEPTEMBER-2017**

SUBMITTED BY-

**M/S. TOPCEM INDIA
5TH FLOOR, MEGHA PLAZA,
CHRISTIAN BASTI, G.S ROAD,
GUWAHATI-781005**



Name of The Company:

M/s. Topcem India

Project :

Proposed 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 of
Environmental
Clearance Letter: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 30 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 installed online (opacity meter) monitoring device in our Cement Mill stack for continuous monitoring of the gaseous emissions. PM data is live on CPCB and State PCB server (http://202.191.230.91/). - Reverse pulse jet type Bag filters are provided for Mill, classifier, silos and Cement packing ventilation. - Necessary replacement of filters has been done in August 2016 for controlling of the emission below 30mg/Nm³. Maintenance of Bag filters is being done regularly. - Monitored data of ambient air, fugitive and stack emission along with online opacity meter monthly 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. Other than Sox, Nox and PM rest of parameters are found very minute quantity in the air so we are monitoring them once in the year. The report is



S.N.	CONDITIONS	REMARKS
		attached with as Annexure-I.
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 monitoring the parameters as per guideline. Refer Annexure-I for latest monitoring data.
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 19 numbers of reverse pulse jet type bag filters system in whole plant 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. -Pneumatic system has been using for transporting of raw materials.
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"> -Concreting of road has done and upto 80% has covered. We ensure that we spray water regularly around loading/unloading areas and internal road in the cement grinding unit. -The Fugitive emission result on six locations (as mentioned in EIA/EMP report) and collection of PUC certificate data of vehicles entering within the plant are attached with this report as Annexure-I and Annexure-II.
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 HDPE bags, internal roads of plant are paved and regular sprinkling of water is being done on roads. We have separate parking areas for trucks.
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 and being used for waste water reuse. - Effluent Treatment Plant has also constructed for recycle water being used in washing of vehicles.
viii.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the	Rain water harvesting system has been constructed for conservation of rain



S.N.	CONDITIONS	REMARKS
	maximum water requirement. Only balance water requirement shall be met from other sources.	water and for reducing the consumption of fresh water. Rooftop water is being collected and stored for household uses.
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. - ETP has also constructed near plant workshop.
x.	Green belt shall be developed in an area of 33% of total area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	We have developed the green belt inside the plant premises within 11517 square meters to mitigate the effects of pollution in consultation with local DFO.
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.	Already submitted to Ministry's Regional Office at Shillong, ASPCB and CPCB. Revised Risk and Disaster Management Plan for M/s TOPCEM INDIA is attached with the report as Annexure-III.
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 2017-18 is attached as Annexure-IV. Accordingly Corporate Social responsibility activities are being followed.
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.	The company had provided houses for construction labor with all necessary infrastructure and facilities at the time of project work.

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. We have obtained Consent to Operate (CTO) for the year 2017-18 from the board under water Act-1974 and Air Act-1981 vide APCB letter no. : WB/GUW/T-1241/Pt-I/12-13/227/2047 dated 30/03/17.
ii.	No further expansion or modifications in the plant shall be	Prior approval of the Ministry of

TOPCEM INDIA

S. N.	CONDITIONS	STATUS
	carried out without prior approval of the Ministry of Environment and Forests.	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.	Four ambient air quality monitoring locations are installed in consultation with Pollution Control Board vide Letter no WB/LB-81/Amb/09-10/33/1327 dated 26 th August 2011. - Data on ambient air quality and stack emissions test report are attached as Annexure -I. - We are regularly submitting six monthly compliance report to the Ministry's Office, State pollution control board, Assam and Central Pollution control Board Delhi.
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. We are using Sewage Treatment plant for treating waste water. The treated wastewater is being used for plantation and other purpose like spraying on roads and dust suppression.
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, 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).	We have undertaken all the measures and ensure that noise levels should remain within the limit. Noise monitoring reports are enclosed as Annexure-I.
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.
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 structure has constructed.
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	The fund has embarked for environment pollution control measures as per EC granted by MOEF. Implementation



S. N.	CONDITIONS	STATUS
	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.	schedule for implementing all conditions stipulated has already submitted to Regional Office of the Ministry of Environment and forest at Shillong.
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. -We are displaying critical pollutants (ambient as well as stack emissions) near our Industry gate.
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 as stipulated. Last EC Compliance report for the period October'2016 to March'2017 was submitted vide letter no. TI/MEF/OA156 dated 23 rd May 2017 to the competent authorities.
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 2016-17 was submitted vide our letter No.TI/MEF/OA 117 dtd 16 th May 2017 to Pollution Control Board Assam and Regional Office of the MoEF Shillong.

TOPCEM INDIA

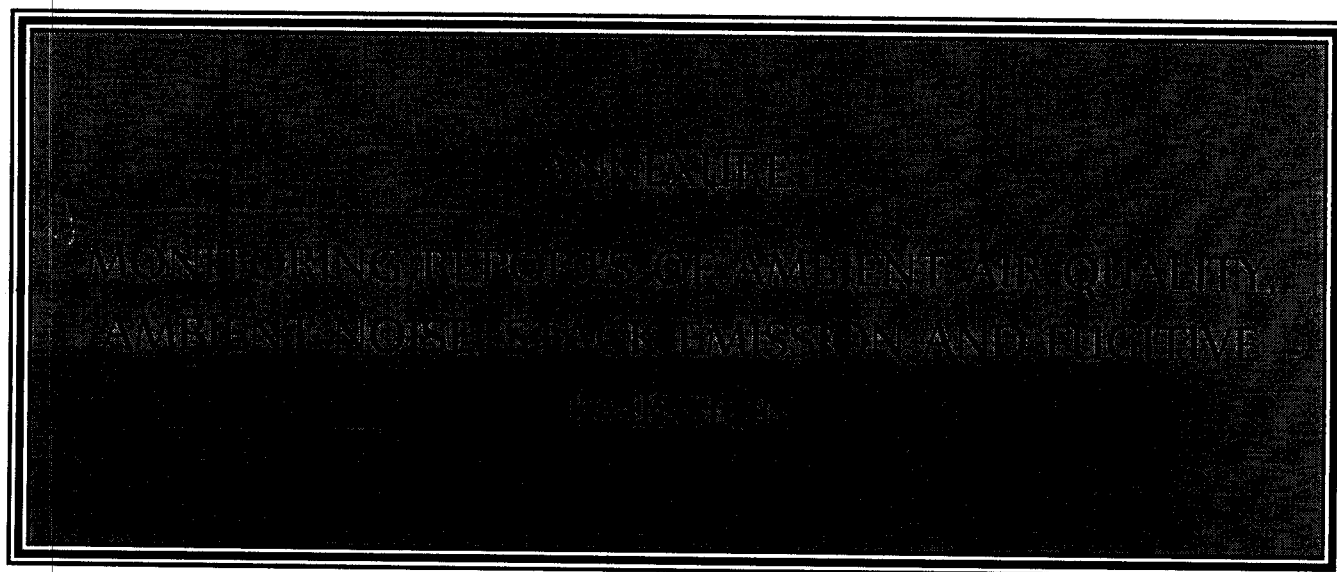

 Authorised Signatory



S. N.	CONDITIONS	STATUS
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.	Followed the condition.
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.	Followed the condition and informed to the Ministry's regional Office, Shillong.
8.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	We are agreed with the condition and assure that we are implementing the condition.
9.	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	We are agreed with the condition and assure that we are implementing the condition.
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.	We are agreed with the condition and assure that we are implementing the condition.
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.	We are agreed with the condition and assure that we are implementing the condition.

TOPCEM INDIA

Authorised Signatory



Report No. : ENV/TPCIND/AAQ/Nov/17-18/01

Date : 11/11/2017

M/s TOPCEM INDIA

Village: Gauripur, North Guwahati

Dist.- Kamrup Rural

Assam

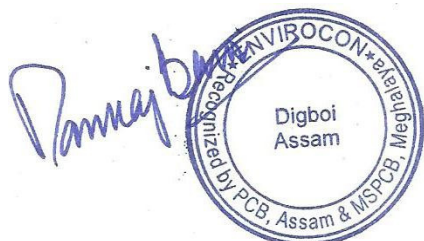
AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	NO ₂ (µg/m³)	SO ₂ (µg/m³)	NH ₃ (µg/m³)	CO (mg/m³)	O ₃ (mg/m³)	B(a)P (ng/m³)	C ₆ H ₆ (µg /m³)	Ni (ng/m³)	As (ng/m³)	Pb (µg/m³)
LIMITS →	--	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Near Workshop & Near Staff Quarter	1 st & 2 nd Nov, 2017	26.7	58.3	10.2	5.8	ND	ND	ND	ND	ND	ND	ND	ND

Analysis Protocol: **IS 5182**

ND: Not Detected

Remarks: Sampling for Ambient Air Quality testing was carried out at the abovementioned location in between Workshop and Staff Quarter of 'M/s Topcem India at Gauripur, North Guwahati, Assam. Sampling was done using 'Ambient Fine Dust 2.5 Sampler, make ENVIROTECH, to collect the field samples. The sampler was run for a period of 24 hours at the site and samples collected for PM 2.5µ, PM 10µ. Other pollutants were collected using suitable gaseous sampler and detector/analyser. The collected samples were then analysed as per standard procedure. From the analysis results, it can be seen that, ambient air quality is normal at all the monitoring station. The concentrations of PMs, SO₂ & NO₂ are well within the prescribed limits. Other pollutants were not detected.



Checked By: Pankaj Baroi, **ENVIROCON**

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Recognized by Pollution Control Board, Assam & MSME

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 170718_12040009_06A_878/990

Date: 18/07/2017

Name & Address:

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

APRIL/17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	20/04/17	Near Highway & Truck Parking	64.9
ii)		Near Workshop & Staff Quarter	67.2
iii)	21/04/17	Near Packing Plant	69.5
iv)		Near Cement Mill	71.8

Remarks: Noise level are carried out during day time.

MAY/17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	08/05/17	Near Highway & Truck Parking	66.1
ii)		Near Workshop & Staff Quarter	68.3
iii)	09/05/17	Near Packing Plant	65.7
iv)		Near Cement Mill	69.0

Remarks: Noise level are carried out during day time.

JUNE/17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	15/06/17	Near Highway & Truck Parking	63.7
ii)		Near Workshop & Staff Quarter	65.2
iii)	16/06/17	Near Packing Plant	67.9
iv)		Near Cement Mill	68.4

Remarks: Noise level are carried out during day time.



Recognized by Pollution Control Board, Assam & MSME

Rep.No. 170718_12040009_06A_878

Date: 18/07/2017

JULY/17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	12/07/17	Near Highway & Truck Parking	64.5
ii)		Near Workshop & Staff Quarter	66.0
iii)	13/07/17	Near Packing Plant	69.2
iv)		Near Cement Mill	71.3

Remarks: Noise level are carried out during day time.

Envision Enviro Technologies North East, Guwahati

1	PREPARED BY (OFFICE EXECUTIVE)	
2	SAMPLE COLLECTION & ANALYSIS BY (SR. ENVIRONMENT CHEMIST)	
3	CROSS-CHECKED BY (ENVIRONMENT EXECUTIVE)	
4	Released by (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. 170718_12040009_02_879

Date: 18/07/2017

Name & Address:

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

April 17

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	20/04/17	Stack attached to DG Set 1500 KVA - 1	48.2	-All DG set with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA -2	47.5	
iii)	21/04/17	Stack attached to DG Set 1500 KVA -3	52.3	
iv)		Stack attached to DG Set 1500 KVA -4	49.1	

May 17

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	08/05/17	Stack attached to DG Set 1500 KVA - 1	46.8	-All DG set with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA -2	44.6	
iii)	09/05/17	Stack attached to DG Set 1500 KVA -3	47.9	
iv)		Stack attached to DG Set 1500 KVA -4	50.3	

June/17

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	15/06/17	Stack attached to DG Set 1500 KVA - 1	51.0	-All DG set with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA -2	49.8	
iii)	16/06/17	Stack attached to DG Set 1500 KVA -3	52.3	
iv)		Stack attached to DG Set 1500 KVA -4	48.7	



Rep.No. 170718_12040009_02_879

July 17

Date: 18/07/2017

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	12/07/17	Stack attached to DG Set 1500 KVA - 1	49.2	-All DG set with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA - 2	47.6	
iii)	13/07/17	Stack attached to DG Set 1500 KVA - 3	51.3	
iv)		Stack attached to DG Set 1500 KVA - 4	50.5	

Emission Standards :

Parameter	Standards
Particulate Matter	75 mg/Nm ³

Envision Enviro Technologies North East, Guwahati

1	Prepared by (Office Executive)	
2	Sample collection & analysis by (Sr. Environment Chemist)	
3	Cross-checked by (Environment Executive)	
4	Released by (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 & MSME

STACK ANALYSIS REPORT

Rep.No. 170718_12040009_02_880

Date: 18/07/2017

Name & Address:

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


SL. NO.	STACK DESCRIPTION	PARAMETERS			
		Particulate Matter (mg/Nm ³)			
		April	May	June	July
		20/04/17	08/05/17	15/06/17	12/07/17
i)	Stack attached to Cement Mill	18.5	21.1	17.6	19.2

REMARKS: -Production capacity of the cement plant is 0.66 MTPA.
- Bag filter is attached to Cement mill.
-Necessary replacement of filters has been done.

Emission Standards :

Parameter	Standards
Particulate Matter	30mg/Nm ³

Envision Enviro Technologies North East, Guwahati

1	Prepared by (Office Executive)	
2	Sample collection & analysis by (Sr. Environment Chemist)	
3	Cross-checked by (Environment Executive)	
4	Released by (Quality control Manager)	

Recognized by Pollution Control Board, Assam; MSME & An ISO 9001:2015 & OHSAS 18001:2007 Certified Firm

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 170919_12040009_06A_021 / 1995

Date: 19/09/2017

Name & Address:

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

AUG/17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	08/08/17	Near Highway & Truck Parking	65.0
ii)		Near Workshop & Staff Quarter	65.7
iii)	09/08/17	Near Packing Plant	64.9
iv)		Near Cement Mill	63.1

Remarks: Noise level are carried out during day time.

SEPT/17


SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	13/09/17	Near Highway & Truck Parking	64.8
ii)		Near Workshop & Staff Quarter	63.9
iii)	14/09 /17	Near Packing Plant	65.1
iv)		Near Cement Mill	62.4

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

1	PREPARED BY (OFFICE EXECUTIVE)	
2	SAMPLE COLLECTION & ANALYSIS BY (SR. ENVIRONMENT CHEMIST)	
3	CROSS-CHECKED BY (ENVIRONMENT EXECUTIVE)	
4	Released by (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; MSME & An ISO 9001:2015 & OHSAS 18001:2007 Certified Firm

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 170919_12040009_06A_020 /995

Date: 19/09/2017

Name & Address:

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

AUG/17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	08/08/17	1500 KVA DG Set-1	71.4
ii)		1500 KVA DG Set-2	69.2
iii)	09/08/17	1500 KVA DG Set-3	71.0
iv)		1500 KVA DG Set-4	72.5

Remarks: Noise level are carried out during day time and all DG sets are covered with acoustic enclosure.

SEPT/17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	13/09/17	1500 KVA DG Set-1	70.9
ii)		1500 KVA DG Set-2	72.4
iii)	14/09/17	1500 KVA DG Set-3	73.1
iv)		1500 KVA DG Set-4	70.1

Remarks: Noise level are carried out during day time and all DG sets are covered with acoustic enclosure.

Envision Enviro Technologies North East, Guwahati

1	PREPARED BY (OFFICE EXECUTIVE)	
2	SAMPLE COLLECTION & ANALYSIS BY (SR. ENVIRONMENT CHEMIST)	
3	CROSS-CHECKED BY (ENVIRONMENT EXECUTIVE)	
4	Released by (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. 170919_12040009_02_022 / 995

Date: 19/09/2017

Name & Address:

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

AUG/17

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS Particulate Matter (mg/Nm ³)	REMARKS
i)	08/08/17	Stack attached to DG Set 1500 KVA - 1	49.7	-All DG set with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA - 2	52.0	
iii)	09/08/17	Stack attached to DG Set 1500 KVA - 3	45.3	
iv)		Stack attached to DG Set 1500 KVA - 4	46.1	

SEPT/17

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS Particulate Matter (mg/Nm ³)	REMARKS
i)	13/09/17	Stack attached to DG Set 1500 KVA - 1	47.5	-All DG set with acoustic enclosure.
ii)		Stack attached to DG Set 1500 KVA - 2	48.1	
iii)	14/09/17	Stack attached to DG Set 1500 KVA - 3	49.3	
iv)		Stack attached to DG Set 1500 KVA - 4	47.4	

Emission Standards :

Parameter	Standards
Particulate Matter	75 mg/Nm ³

Envision Enviro Technologies North East, Guwahati

1	Prepared by (Office Executive)	
2	Sample collection & analysis by (Sr. Environment Chemist)	
3	Cross-checked by (Environment Executive)	
4	Released by (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; MSME & An ISO 9001:2015 & OHSAS 18001:2007 Certified Firm

STACK ANALYSIS REPORT

Rep.No. 170919_12040009_02_023 /995

Date: 19/09/2017

Name & Address:

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

SL. NO.	STACK DESCRIPTION	PARAMETERS	
		Particulate Matter (mg/Nm ³)	
		AUGUST	SEPTEMBER
		09/08/17	13/09/17
i)	Stack attached to Cement Mill	18.0	16.4

REMARKS: -Production capacity of the cement plant is 0.66 MTPA.
- Bag filter is attached to Cement mill.
-Necessary replacement of filters has been done.

Emission Standards :

Parameter	Standards
Particulate Matter	30mg/Nm ³

Envision Enviro Technologies North East, Guwahati

1	Prepared by (Office Executive)	
2	Sample collection & analysis by (Sr. Environment Chemist)	
3	Cross-checked by (Environment Executive)	
4	Released by (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.170919_12040009_01_018 / 995

Date: 19/09/2017

Name & Address:

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

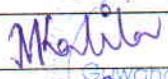

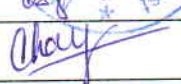
SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS			
				PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)
i)	13/09/17	Near Highways & Truck Parking	Clear	56.7	35.5	14.8	3.9
ii)		Near Workshop & Staff Quarter		54.6	37.1	15.0	5.2
iii)	14/09/17	Near Switch Yard		55.9	37.0	13.7	6.1
iv)		Near Truck Tippler		54.4	31.9	15.2	7.0

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), $\mu\text{g}/\text{m}^3$	Annual	50	
		24 hours		80
2	Nitrogen Dioxide (NO _x), $\mu\text{g}/\text{m}^3$	Annual	40	
		24 hours		80
3	Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	Annual	60	
		24 hours		100
4	Particulate Matter (PM _{2.5}), $\mu\text{g}/\text{m}^3$	Annual	40	
		24 hours		60

Envision Enviro Technologies North East, Guwahati

1	Prepared by (Office Executive)	  
2	Sample collection & analysis by (Sr. Environment Chemist)	
3	Cross-checked by (Environment Executive)	
4	Released by (Quality control Manager)	

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

ii) The results are not to be used without written approval of laboratory.

Recognized by Pollution Control Board, Assam; MSME & An ISO 9001:2015 &

OHSAS 18001:2007 Certified Firm

FUGITIVE EMISSION ANALYSIS REPORT

Rep.No. 170919_12040009_04_019 / 495

Date: 19/09/2017

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)	13/09/17	Near Main Gate	855.34	-Water spraying is done to control the fugitive emission.
ii)		Near Fly Ash Yard	800.17	
iii)		Near Packing Loading Area	1397.00	
iv)	14/09/17	Near Packing Area	1461.00	-All materials are stored in closed sheds to mitigate fugitive emission.
v)		Near Bag Filter	388.00	
vi)		Near Truck Tippler	1002.00	

Envision Enviro Technologies North East, Guwahati

1	Prepared by (Office Executive)	
2	Sample collection & analysis by (Sr. Environment Chemist)	
3	Cross-checked by (Environment Executive)	
4	Released by (Quality control Manager)	



Recognized by Pollution Control Board, Assam & MSME

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 170718_12040009_06A_877

Date: 18/07/2017

Name & Address:

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

April/17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	20/04/17	1500 KVA DG Set-1	71.5
ii)		1500 KVA DG Set-2	72.0
iii)		1500 KVA DG Set-3	69.4
iv)	21/04/17	1500 KVA DG Set-4	70.6

May 17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	08/05/17	1500 KVA DG Set-1	68.2
ii)		1500 KVA DG Set-2	70.9
iii)		1500 KVA DG Set-3	73.1
iv)	09/05/17	1500 KVA DG Set-4	69.5

June17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	15/06/17	1500 KVA DG Set-1	67.4
ii)		1500 KVA DG Set-2	72.1
iii)		1500 KVA DG Set-3	70.6
iv)	16/06/17	1500 KVA DG Set-4	68.3

July 17

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	12/07/17	1500 KVA DG Set-1	72.7
ii)		1500 KVA DG Set-2	69.3
iii)		1500 KVA DG Set-3	66.1
iv)	13/07/17	1500 KVA DG Set-4	68.5

Remarks: Noise level are carried out during day time and all DG sets are covered with acoustic enclosure.

Envision, Enviro Technologies North East, Guwahati

1	PREPARED BY (OFFICE EXECUTIVE)	
2	SAMPLE COLLECTION & ANALYSIS BY (SR. ENVIRONMENT CHEMIST)	
3	CROSS-CHECKED BY (ENVIRONMENT EXECUTIVE)	
4	Released by (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.

M/s TOPCEM INDIA(GAURIPUR)

RISK ASSESSMENT & DISASTER MANAGEMENT PLAN

1.1 INTRODUCTION:-

A risk assessment is required for identifying sensible measures to control the risks in our workplace. One of the most important aspects of our risk assessment is accurately identifying the potential hazards in our workplace. It involves identification and assessment of risk at Plant site and in the neighboring population who could be exposed to, as a result of hazards present.

Accidents are normally caused by number of different factors, e.g. plant failure, Human error, earth quake, vehicular accident etc. An important element of risk mitigation is emergency preparedness which recognizes the potential situations and consequences and by preparing onsite emergency plan.

1.2 RISK AND DISASTER MANAGEMENT OF M/s TOPCEM INDIA:-

M/s TOPCEM INDIA is located in Gauripur Village of Kamrup Rural District near by Guwahati Town in Assam. It is an ISO 9001:2015 certified cement grinding Unit of 2000 TPD or 0.66 MTPA without clinkerization process. The plant is fully automated with distributed control system(DCS). The whole plant operation is executed through central control room and there are several safety interlocks associated with the process to prevent any damage in case of operational failure. It is also provided for the aspect of Health & life safety of working personnel along with plant equipment.

We have maintained section wise Standard operating procedure(SOP's) for each and every department and operational control procedure of critical equipment.

We have identified these areas in our plant which is characterized with maximum risk potential and the occurrence of hazard is most probable.

We have also identified the areas in our plant which may cause toxic hazard due to loading unloading, feeding of raw materials which may result in fugitive dust emission in air.

The controlling equipment's detail of identified areas is also described along with the identified areas.

1.3 RISK AND HAZARD AREA ASSESMENT AND EVALUATION:-

Electrical Power Distribution section: This is the most common accident known area to occur in any plant where power is received and distributed through the plant. Short circuit is the main reason for such accidents and it takes sufficient time to get widespread. Appropriate fire fighting system such as fire extinguisher is installed in each area to mitigate the accidental risk and some particular area are provided with fire bucket which are filled with sand to prevent fire. The section is facilitated with several numbers of exit point to be used during emergency.

Diesel Generator(DG) section: DG section is also treated as most common accident prone area. The overall DG operation is executed by PLC based control system to avoid any human error. It is also equipped with safety interlocks. Appropriate fire fighting system such as fire extinguisher is installed in this section to mitigate the accidental risk and also fire bucket is provided which are filled with sand to prevent fire at the time of emergency. The section is facilitated with several numbers of exit point to be used during emergency.

Besides these all DG's are covered by acoustic enclosures to reduce the noise pollution.

- The shift persons are well trained to take appropriate action while emergency condition.

Quality control Chemical Laboratory: All the Chemical test of raw materials, Semi finished products and finished products is being done in chemical laboratory. The risk associated with this process is small but all the safety precaution is practicing in lab to avoid any accidents. The primary responsibility for proper hazard evaluations and risk assessments lies with the person performing the experiment. The responsibility is shared by the laboratory In-charge. These following steps are taken to minimize the risk and disaster in laboratory.

ANNEXURE -III

- All the chemicals used is labeled properly. The hazardous chemical like acids are store properly with warning sign.
- Working persons have given awareness training while using these chemicals. First aid box is provided by HR&A for cutting, burning or small wound.
- Personal protective equipments (PPE) like Apron, Nose mask, hand gloves, safety Shoes etc have provided to employees and workers for using while working.
- The lab in-Charge is also responsible for ensuring that everyone involved in an experiment and those nearby understand the evaluations and assessments.

Raw material loading unloading, Feeding and transport of raw material, : - The raw materials used for manufacturing of Cement in our plant are Clinker, Gypsum and Fly Ash. These materials procured from external source. The clinker received is stored in Concrete silo, fly ash and gypsum are stored in covered shed.

The following steps has take to minimize the risk and hazardous material effect. :

- Total 18 numbers of Bags Filters are attached on various loading, unloading, feeding and transporting areas of raw materials.
- All the feeding belts, Equipments and conveyors of material are coded with unique name for proper run and communication to control room for avoiding any accidents.
- Shift wise responsible employees are given in each and every section to communication to control room for avoiding any risk or accident in plant site.
- Workers and staff associated with identified hazardous areas are provided with PPE's(safety Helmet, safety shoes, nose mask, goggles, ear plugs.ear muffs, hand gloves etc) to minimize the risks occurred due to exposure with dust while feeding of materials.

- Sprinkling of water in all area of plant is being done on regular basis by various sprinklers installed at different places to suppress fugitive dust.
- Safety awareness trainings are providing to workers and employees to minimize accident in work areas.

Mechanical workshop Area

Mechanical workshop can be also treated as the place where workers are lightly to be involve with accidents resulting in injury to body parts. Mechanical repair work welding/gas cutting works are being done on regular basis.

Since most accidents occurred due to human error and improper work practice, following steps are adopted by concern department for non occurrence of such hazard.

- safety awareness workshop for the plant personal are organized.
- Workers are provided to wear and use appropriate safety devices like boots, gloves, helmets ,aprons ,goggles, and safety belts.
- Access to the workshops is strictly restricted to authorized personnel only.
- Only experienced and trained persons can operate workshop equipment.
- All workshop equipment are regularly maintained.

1.4 ONSITE EMERGENCY PLAN

The objective of onsite emergency plan is to make maximum use of both the internal as well as external resources. The effort has been made by company's management to provide good work environment confirming with minimum risk and to control the disaster. The HR&A department is responsible for all the safety awareness, training and implementation of risk and management plan.

The following facilities are made available for employees by M/s Topcem India administration.

Fire Fighting Facility: All areas of the plant are provided with fire fighting system. The main Control room building(CCR) and the colony area are protected with fire hydrant system and others identified areas are also belongs to such locations where fire extinguishers are installed.

Medical Facility: The administration has provided small first aid facility in case of minor incidence to each department. For major accidents two near by hospitals are available which can be reached within five minutes. In these hospitals employees and worker's health checkup are being done as per factory act. Other than that all company employees are made available under ESI and Medi claim facilities.

Personnel Protective Equipments: HR&A department is providing Safety Shoes and safety helmet. Safety goggles, leather hand gloves, rubber hand gloves, aprons, earplugs, Gum boot etc are made available to procure by concern department for all employees and workers as per their working areas. Along with that the stock of the PPE's are also maintaining.

1.5 KEY PERSONNEL AND RESPONSIBILITY

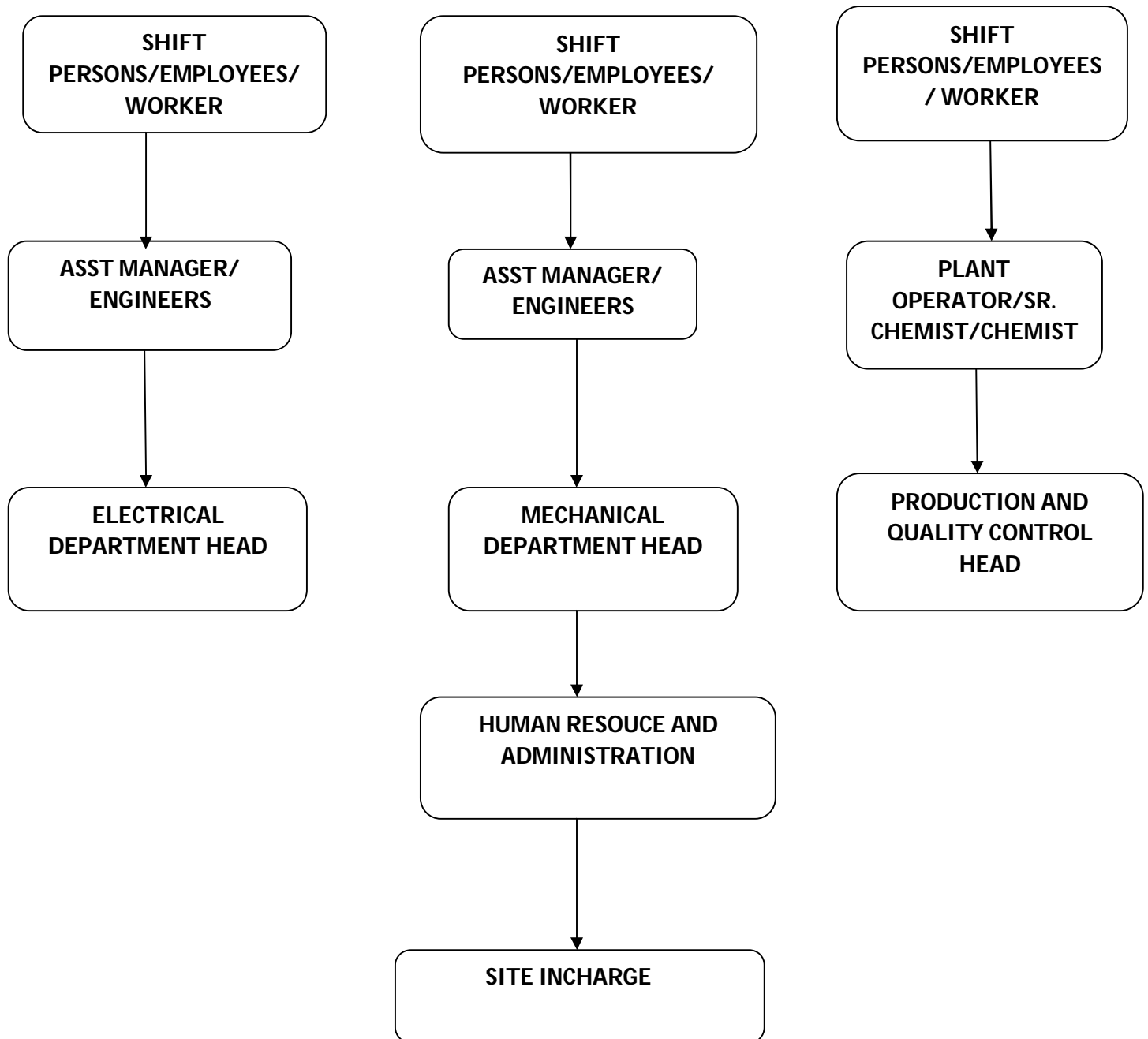
The action necessary in an emergency is clearly depend upon the surrounding circumstances. Nevertheless it is imperative that the required action will be initiated and directed by nominated people, is having specified responsibilities as part of co-ordinate plan. Such nominated personnel will be known as key personnel.

Organization: In our organization the risk, safety and disaster awareness is lies on responsible personnel. The following are the list of personnel/organization chart describing the specific responsibilities depending on their safety and emergency role.

ANNEXURE -III

M/S TOPCEM INDIA,GAURIPUR

ORGANISATION CHART FOR SAFETY AND EMERGENCY ROLE



ANNEXURE -III

List of key personnel and contact details of onsite emergency plan

<u>Sl. No</u>	<u>Name and designation</u>	<u>Contact details/intercom Number</u>	<u>Type of Emergency</u>
1	Security Office/Time office	8011052035/534	Vehicle related accidents or emergency
2	Central Control Room	8011001961/511	Site Emergency
3	HR&A	9401453835/531	Any Emergency
4	Electrical Shift	526	Electrical Emergency
5	Mechanical Shift	530	Mechanical Emergency

**Item-wise Corporate Social Responsibility details along
with time bound action plan 2017-2018**

Following activity is being under taken as a part of CSR:

☐ Primary health for the surrounding villages, Community & Rural Welfare

- In Gauripur village school water boring pump has Excavated for villagers in July 2017

Material cost-Rupees 195350/-

PVC pipe fitting- Rupees 22050/-

Boring Cost- Rupees 220070/-

Total cost- Rupees 437470/-

☐ Village Infrastructure-

Manufacturing Shiv Temple at Gauripur village work is in progress with approx primary cost of 12.0 lakh Rupees, It will be completed by December 2017.

☐ Plantation-

Total no of Plant saplings within site -34982 numbers

Total cost of plantation-Rupees 902756/-