



Registered Office: Opposite Horse Shoe Building, Lower Lachumiere, Shillong 793 001, Meghalaya | Ph: +91 364 2503192 | email: info@amrit.co.in

Date: 28-11-2018

To,
The Joint Director
Ministry of Environment, Forest and Climate Change
North Eastern Regional Office
Law-U-Sib, Lumbatngen,
Near MTC Workshop, Shillong -793021

Subject : - Six Month Compliance Report of EC stipulations on Amrit Cement Limited.
Reference: -Environmental Clearance vide letter no. J-11011/75/2009-IA-II (I).Dated 17.03.2010.

Dear Sir,

With reference to above mentioned letter, we are submitting herewith the Six Month Compliance Report of the stipulated environmental conditions of Environmental clearance along with results of monitored data for the period of **April , 2018 to September, 2018.**

Thanking you,

yours faithfully,

FOR, AMRIT CEMENT LTD.

Authorized Signatory

Encl. : As Above

Copy to : 1. Additional Director & Zonal Officer,

Central Pollution Control Board,

North Eastern Zonal Office, Shillong – 793014

2. Member Secretary

Meghalaya State Pollution Control Board, Shillong

Central Pollution Control Board
क्षेत्रीय निदेशालय उत्तर पूर्व शिलांग - ७९३०१४
Regional Directorate - North East, Shillong - 793014
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO

DATED 04/12/18



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Amrit Cement Industries Ltd.

Head Office: Trinity, 6th Floor, 226/1 A J C Bose Road, Kolkata 700 020 | Ph: +91 33 4003 3441 | email: info@amrit.co.in

AMRIT CEMENT LIMITED

Village: Umlaper, Elaka- Rymbai Dist.: Jaintia Hills Meghalaya

COMPLIANCE STATUS

ENVIRONMENTAL CLEARANCE LETTER NO.F No. J-11011/75/2009-IA-II (I) Dated 17.03.2010

Period: From 1st April 2018 to 30th September 2018.

(A) Specific Conditions:-

Sl. No.	Conditions	Compliance
i)	No Mining Activity shall be stated at the site without proper environmental clearance/ consent from the Central/State Government.	Noted Further 'Consent to Operate' for Operating 0.90 MTPA cement manufacturing unit along with 10 MW captive power plant for the year 2018-19 was renewed vide ref. No. MPCB/CON-14(2010)/Pt-I/2018-2019/77 Dt: 07-05-2018 Copy of Consent to Operate is enclosed as Annexure-I .
ii)	Online ambient air quality and continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. After expansion limit of SPM shall be controlled within 30 mg/Nm ³ by installing adequate air pollution control system viz. Electrostatic precipitations (ESPs) to clinker cooler and captive power plant (AFBC), bag house to raw mill/kiln and bag filters shall be provided to coal mill, cement mill etc. Adequate stack height as per CPCB guidelines shall be provided to AFBC boiler to control emissions. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit is shut down automatically. Data on ambient air, fugitive and stack emissions will be submitted to the Ministry's Regional Office at Shillong, Meghalaya Pollution Control Board (MPCB) and CPCB regularly.	Provided continuous stack monitoring facilities, high efficiency ESP for Clinker Cooler & Reverse Air Bag House (RABH) for Kiln & Raw mill. Bag filters for Cement mill & coal mill. Provided ESP for Captive Power Plant. With these high efficiency pollution control equipments, SPM being maintained well within specified limit i.e. 30 mg/Nm ³ (G.S.R. 612(E) dated August 25, 2014). The entire Chimneys /stacks, installed areas per guideline. Data of Ambient air quality, fugitive emissions and stack emissions and ambient noise level monitoring are being submitted to the MOEF, Regional Office at Shillong, MPCB & CPCB regularly. Interlocking facility has been provided to all the Bag House and pulse jet bag filters. The online data of stack monitoring is given on CPCB website through suitable modem. The URL is glensepcb.glensserver.com Ambient air and stack monitoring data are attached as Annexure-II B & II A respectively.
iii)	An action plan shall be prepared and submitted to the Ministry's Regional Office at Shillong, for the	Provided separate lime feeding hopper for boiler to control SO ₂ emissions.



	control of SO2 emissions from the captive power plant.	The details of the existing Limestone Feeding system and letter to M.O.E.F. , CPCB & MSPCB are attached as Annexure-III
iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 826(E). Dated 16th November, 2009 shall be followed.	The company shall follow the National Ambient Air Quality Emission and all the monitoring results are as per norms.
v)	Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB) and a feasibility report shall be prepared and submitted to the Ministry and its Regional Office at Shillong within 3 months from the date of issue of the letter.	Gases generated from kiln fully being utilized for drying the moisture in the raw materials like lime stone, clay, shale & coal, by diverting the hot gases to Raw mill & coal mill section. There is also proposal under study to utilize the cooler exit gases for drying the moisture in Fly ash.
vi)	The Company shall install adequate dust collection and extraction system at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. to control fugitive emissions. All the raw material stack piles shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials will be provided besides coal, cement, fly ash and clinker will be stored in soils. Pneumatic system shall be used for fly ash handling. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	The company is already using water tankers for water sprinkling at loading & unloading points and all transfer points to control fugitive emissions. Provided dust extraction systems for all raw material transfer points. The raw materials viz. Clinker, fly ash and gypsum are stored in covered sheds. Finished products are stored in silos. Water tankers are deployed for water sprinkling at all the raw material stock yard and cement loading areas. Provided auto water sprinkling system facility on lime stone conveyer belt. Photographs are attached as Annexure-IV .
vii)	Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emission, Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Central Board in the regard. Dust extraction/suppression system shall be provided at transfer points, crusher house, coal stock pile etc. Automatic dust cleaning system will be provided to clean floors to control fugitive dust emissions. The material shall be transported in covered chutes or trucks.	Asphalting/concreting of roads shall be provided. Presently regular water spraying all around the stockyard, critical areas prone and loading/unloading areas in the cement plant, plant road, and other vulnerable areas being carried out to control fugitive emissions. The material being transported in covered chutes and trucks.
viii)	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the least permissible limits issued	All necessary steps taken for proper control of emission levels including secondary fugitive emissions from all the sources within the least permissible limits as per



	by the CPCB will be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R 414(E) dated 2008 shall be followed.	CPCB notification.
ix)	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agriculture land. All the raw materials including fly ash shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly mentioned.	Raw materials and end products being transported in covered containers, overloading is strictly prohibited. Vehicular emissions record being maintained at security main gate.
x)	Total water requirement for cement plant from River Thaw Dollia shall not exceed 2100 m ³ /day. No ground water will be used. Rejects of the water treatment plant shall be neutralized and boiler blow down shall be stored in common drain pit to cool naturally. Industrial effluent from captive power plant (CPP) shall be treated in effluent treatment plant (ETP). All the treated waste water shall be recycled and reused in the process and/or for cooling, dust suppression and green belt development and other plant related activities etc. No process wastewater will be discharged outside the factory premises and 'zero' discharge shall be adopted.	No ground water is used. The rejects of Water treatment Plant are neutralized in the neutralizing Pit and used for dust suppression and plantations. Boiler blow down is separately drained for cooling. Back wash water of water treatment plant shall also be collected in a separate tank. No process water is discharged outside factory premises and Zero discharge is adopted.
xi)	Permission' for the drawl of 2,100 m ³ /day water from River Thew Dollia shall be obtained from concerned Department. Sewage treatment plant (STP) shall be installed for the treatment of sewage from the colony and treated domestic effluent shall be used for green belt development within the plant premises. Domestic waste from colony and STP shall be segregated into bio- degradable and non-biodegradable, Bio- degradable waste shall be land filled at identifies sites.	Permission for drawl of 2100 m ³ / day water from river Thwai Dolloi, is already obtained. STP is installed for the treatment of domestic effluent and treated effluent shall be used for green belt development. There is no sewage effluent as we are using Soak Pits for this purpose. The domestic waste shall also be segregated into Bio-degradable and non-biodegradable. Bio-degradable waste shall be composted and used for the green belt development. Non-biodegradable waste is used for land filling at identified sites.
xii)	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 will be met from other resources.	During rainy season, we are not drawing any water from river Thwai Dolloi, but harvesting rain water flowing from water fall and pumping it to our reservoirs. Another scheme to harvest rain water flowing through storm water drain is also planned.
xiii)	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 and used for cement manufacturing. Combustible wastes along with spent oil will be used as fuel in the kiln. Non-combustible wastes will be land filled for manure composting and non- compostable waste shall be land filled for composting and non-compostable waste STP sludge shall be used as	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices being recycled and reused in the process and used for cement manufacturing. Spent/used/waste oil and batteries will be disposed to authorized recyclers/reprocesses only. We have already disposal hazardous waste authorized recyclers.



	manure for green belt development. Spent/used/waste oil and batteries shall be sold authorized recyclers/reprocesses only.	
xiv)	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	Being complied.
xv)	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made according. The company shall keep the record of the waste utilized and shall submit the details to Ministry's Regional Office at Shillong, CPCB and MPCB.	The availability of high calorific waste is under process. Provision will be made to use of high calorific hazardous waste in the kiln.
xvi)	All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003.	Being complied.
xvii)	A 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. MPCB and CPCB within 3 months of issue of environment clearance letter.	Done. Risk and Disaster Management Plan copy is enclosed as Annexure- V.
xviii)	As proposed, green belt shall be developed in at least 10 ha. (33%) area in out of total 30 ha. Land in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	The green belt has been developed in phased manner. At present 13,210 trees are covered in an area of 5 ha. Local species are selected in consultation with local DFO and plantation is being done. Details are enclosed as Annexure-VI
xix)	Recommendation and permission of the State Forest Department regarding impact of proposed plant on surrounding reserve forest, if any shall be obtained and implemented. Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.	No Reserve Forest is there in the vicinity and hence it is not applicable.
xx)	All the recommendations made in the Charter on Corporate Responsibilities for Environment Protection (CREP) for the Cement plants shall be implemented.	All the CREP recommendations are being followed.
xxi)	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, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	Project completed, Presently we are providing housing with all necessary infrastructure and facilities such a toilets, safe drinking water, medical facility, health care for all.
xxii)	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 9th November, 2009 will be satisfactory implemented and separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at	All Commitments which was made during the Public Hearing are being satisfactory implemented.



	Shillong.	
xxiii)	At least 5% of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan will be prepared and submitted to the Ministry's Regional Office at Shillong. Implementation of such program shall be ensured accordingly in a time bound manner.	Corporate social responsibility (CSR) activities being under progress. (Enclosed as per Annexure -VII) Include lung function and sputum analysis tests once in six months. Medical Checks by qualified Doctors are being done on regular basis.

(B)General Conditions:-

Sl. No.	Conditions	Compliance
i)	The project authority must adhere to the stipulation made by Meghalaya state Pollution Control Board (MSPCB) and state government.	ACL strictly adheres to the stipulation of MSPCB/State Govt.
ii)	No Further Expansion or Modification of the plant shall be carried out without prior approval of the Ministry.	No further expansion or modification of the plant is being carried on without prior approval of the competent authorizes.
iii)	At least four ambient air quality monitoring station shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and Nox are anticipated in consultation with the Meghalaya state pollution control board. Data on ambient air quality monitoring and stack emission shall be regularly submitted to the ministry including its regional office at Shillong and Meghalaya Pollution control Board once in six months.	Presently we have engaged a third party to carried out ambient air monitoring, stack emission monitoring and noise level monitoring work. The six months data of ambient air quality and stack emissions are regularly submitted to MOEF Regional office, Shillong .Monthly ambient air quality monitoring reports are enclosed as Annexure- II(A) & II(B)
iv)	Industrial waste water shall be properly collected and treated so as to conform to the standard prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amendment from time to time. The treated waste water shall be utilized for plantation purpose.	Generated waste water is being collected in neutralization pit and after it is being used for dust suppression and plantation purpose. We are maintaining zero discharge strictly.
v)	The overall noise level in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measure including acoustic hoods, silencers, and enclosures etc,on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under Environmental (Protection) act, 1986 Rules 1989 viz.75 dBA (Day time) and 70 dBA (Night time)	The Ambient noise levels <75 dB(A) are maintained below Standards prescribed by MPCB/CPCB/MoEFCC. Monthly monitored Noise levels are enclosed as Annexure-II(C)
vi)	Proper housekeeping and adequate occupational health programmes must be taken up. Occupational health surveillance programme shall be done on a regular basis and records maintained. The programme must include lungs function and sputum analysis test in six months.	<ul style="list-style-type: none"> All the persons working in the dust/noise prone areas have been provided with personal protective equipment (PPE) such as helmets, safety glasses, industrial grade gloves, safety harnesses, gum boots, nose masks and earmuffs. Occupational Health Surveillance Programme is being conducted for the workers by a qualified



		<p>doctor along with the medical staff. The medical staff has been appointed for regular health checkup of the workers.</p> <ul style="list-style-type: none"> • Periodic Medical Examination is being done on a regular basis and findings of • the examination and tests are carried out, as per norms, have been duly recorded in the Health Register for ready reference. <p>Preventive health checkup details are attached as Annexure-VIII</p>
vii)	The company shall harvest the rainwater from the roof tops and storm water drains to recharge the ground water.	Implementation of this scheme is in progress.
viii)	The company shall undertake eco-development measures including community welfare measures in the project area.	The Company has taken adequate eco-developmental measures with the objective of balancing with the construction activity as per the advice of the Forest department
ix)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	The Company is complying with all the environmental protection measures and safeguards recommended in the EIA/EMP.
x)	A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Being complied. Recruited one environmental senior executive to lead environmental management cell. Required instrument has been purchased & full-fledged environmental lab established.
xi)	As proposed Rs.50.00 Crores will be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by Ministry of Environment & Forests as well as the State Government and submit implementation schedule for all the conditions stipulated herein to the Regional Office of this Ministry at Shillong / Central Pollution Control Board/Meghalaya State Pollution Control Board. The funds so provided shall not be diverted for any other purpose.	Being done progressively in line with capacity build-up. The fund is being used for Maintenance of pollution control equipment's, Third party monitoring of environmental parameters, green belt development and training programs as per CPCB guideline. The recurring cost is attached as Annexure-IX .
xii)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/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 website of the company by the proponent.	Complied
xiii)	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 will simultaneously be sent to the	Being complied.



	Regional Office of the MOEF at Shillong, the respective Zonal Office of CPCB and the Meghalaya SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ &NO _x (ambient levels as well as stack emissions) or critical sartorial 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.	
xiv)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitoring data (both in hard copies as well as by e-mail) to the Regional Office off MOEF, the respective Zonal Office of CPCB and the Meghalaya SPCB. The Regional Office of this Ministry at Shillong/CPCB/Meghalaya SPCB shall monitor the stipulated conditions.	Being complied.
xv)	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 Offices of the MOEF by e-mail.	Being complied.
xvi)	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 Meghalaya SPCB and may also be seen at Website of the Ministry of Environment & 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 will be forwarded to the Regional Office at Shillong.	Complied.
xvii)	Project authorities shall inform the Regional Office at Shillong 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.
xviii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory.	Noted
xiv)	The Ministry reserve the right to stipulate additional	Noted



	condition if found necessary. The company in a time bound manner shall implement these conditions.	
xx)	Any other conditions or alterations in the above condition will have to be implemented by the project authorities in a time bound manner.	Noted
xxi)	Any appeal against this environmental clearance shall lie with the national environmental appellate authority. If proffered with in a period of 30 days as prescribed under section 11 of the national environmental appellate act 1977.	Noted
xxii)	The above conditions shall be enforced inter- alia under the provision of the water (Prevention and control)Act,1974,the Air (Prevention and control)Act, 1981,the Environmental (Protection)Act,1986,Hazardous Waste (Management and Handling) Rules,2003 and the public liability (Insurance)Act,1991 along with their amendments and rules.	Noted



MEGHALAYA STATE POLLUTION CONTROL BOARD



Forests & Environment Department

GOVERNMENT OF MEGHALAYA

'AR DEN', LUMPYNGGAD, SHILLONG - 793014

Email : megspcb@rediffmail.com

Website : http://megspcb.gov.in

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☎ 0364 - 2521764

No. MPCB/CON-14(2010)/Pt-I/2018-2019/77

Dtd: Shillong, the 7th May, 2018

RENEWAL OF CONSENT TO OPERATE

The **CONSENT to OPERATE** issued in favour of **M/s AMRIT CEMENT LIMITED** Vide T.O Order No. MPCB/CON-14(2010)/2012-2013/39 Dated Shillong the 20th March, 2013 and subsequent renewals for operating a **0.90 MTPA CEMENT MANUFACTURING UNIT alongwith 10 MW CAPTIVE POWER PLANT** with a Project cost of ₹ 550 Crores at Umlaper, Elaka Rymbai, East Jaintia Hills District and which expired on 31st March 2018 is hereby renewed for a period of 1(one) year i.e upto **31st March 2019** under the following **terms and conditions**:

General Conditions:

1. This Consent has been accorded based on the particulars furnished by the applicant on behalf of **M/s AMRIT CEMENT LIMITED** and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice.
2. This Consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following:-
 - (a) Violation of any Terms and Conditions of this Consent;
 - (b) Obtaining the Consent by misrepresentation or failure to disclose fully all relevant facts;
 - (c) A change in any condition that require temporary or permanent reduction or elimination of the authorized discharge/emission.
3. This Consent does not convey any property right in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central State or Local Laws or Regulation.
4. No air, water and soil pollution shall be created by the Industry beyond the prescribed permissible limits.
5. The industry shall take adequate measures for control of noise from its own source so as to comply with the Standards below:

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

6. To maintain the environment and ecology of the area, development of green belt by planting selected species of trees, the height of which should not be less than 5 (five) metres when matured and at a spacing of 1 (One) metre should be made invariably at an area of 15 ha around the cement Plant and 2.0 ha around the colony.
7. As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981 as amended that any Officer empowered by the Board on its behalf shall have without interruption, the right at any time to enter the Plant/factory/for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial this right will cause withdrawal of the Consent Order.
8. The Company shall comply with all the environment protection measures and safeguards recommended in the EIA/EMP.
9. Domestic Wastewater generated from the factory and colony shall have to be treated in a Sewage Treatment Plant. This treated water shall be utilized in greenbelt development around the plant and colony.

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Email : megspcb@rediffmail.com

Website : <http://megspcb.gov.in>

☎ 0364 - 2521217

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10. All recommendations of the corporate Responsibility for Environment Protection (CREP) shall have to be adhered to.
11. Prior Permission of the Central Ground Water Authority should be obtained for extraction of Ground Water.
12. Environmental Statement in prescribed form V should be submitted on or before the 30th September every year.

Specific Conditions:

A) Air Aspect:-

1. The Air pollution control devices installed should be properly maintained so as to ensure control of the emission from the **Cement Plant** as prescribed below:

Sl. No.	Parameter	Standards
1.	Particulate Matter	30 mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	1000 mg/Nm ³
3.	Oxides of Nitrogen (NO _x)	600 mg/Nm ³
4.	Mercury (Hg)	0.03 mg/Nm ³
5.	HCL	10 mg/Nm ³
6.	HF	1 mg/Nm ³
7.	TOC	10 mg/Nm ³
8.	Hg and its compounds	0.05 mg/Nm ³
9.	Cd+Tl and their compounds	0.05 mg/Nm ³
10.	Sb+AS+Pb+Co+Cr+Cu+Mn+Ni+V and their compounds	0.5 mg/Nm ³
11.	Dioxins and Furans	0.1 ngTEQ/Nm ³

2. The air pollution control devices installed for the Thermal Power Plant should be properly maintained so as to ensure control of emission as prescribed below:

Sl. No.	Parameter	Standards
1.	Particulate Matter	50 mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	600 mg/Nm ³
3.	Oxides of Nitrogen (NO _x)	300 mg/Nm ³
4.	Mercury (Hg)	0.03 mg/Nm ³

3. The chimneys/vents attached to various sources of emission shall be assigned with specific reference numbers such as S-1, S-2, etc and these shall be painted/displayed to ease identification. Sampling ports at appropriate location in the chimney/stack and adequate facilities like ladder, platform, etc. for monitoring of the stack emissions should be maintained. The frequency of monitoring of stack emission shall be every fortnightly and the monitoring Report should be submitted to the MSPCB on monthly basis.
4. **On-line continuous stack monitoring facilities provided for dust and gaseous emission should be properly maintained and monitored data should be regularly transmitted to Meghalaya State Pollution Control Board and Central Pollution Control Board.**

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- Appropriate preventive measures should be adopted to reduce fugitive emission so as to control the concentration of suspended particulate matter in the ambient air.
- Provision should be made for maintaining of plantation along the internal roads to reduce dust retention in the air.
- Monitoring of the Ambient Air Quality including micro-meteorological data in at least three ambient air quality monitoring stations established around the Plant premises should be carried out weekly for 24 hours and submit the report to the MSPCB on monthly basis.
- The Ambient Air Quality within the Plant premises and surrounding areas should be maintained within the National Ambient Air Quality Standards prescribed below:-

Sl. No.	Pollutants	Time Weighted average	Concentration in Ambient Air (Industrial, Residential, Rural Areas) $\mu\text{g}/\text{m}^3$
1.	SO ₂	Annual 24 hours	50 80
2.	NO ₂	Annual 24 hours	40 80
3.	Particulate Matter, PM ₁₀ (size less than 10 μm)	Annual 24 hours	60 100
4.	Particulate Matter, PM _{2.5} (size less than 2.5 μm)	Annual 24 hours	40 60

B) Water Aspect:

- The Daily quantity of Water Consumption shall not exceed 18,600 KL/Month.
- The industry shall provide (if not already provided) a comprehensive trade effluent treatment system consisting of Primary, Secondary and or Tertiary treatment as may be warranted with reference to influent quality and an appropriate sewage treatment system as is warranted with reference to influent quality so that the quality of the treated effluent/sewage achieved the prescribed Standard given in the following Table.

S.NO	PARAMETER	STANDARDS
1.	Suspended Solids mg/l max	100
2.	pH value	5.5 - 9.0
3.	Temperature	Shall not exceed 5°C above the receiving water temperature
4.	Oil & Grease mg/l max	10
5.	Total Residual Chlorine mg/l max	1.0
6.	Ammoniacal Nitrogen (asN) mg/l max	50
7.	Total kjeldahl Nitrogen (asN) mg/l max	100
8.	Free Ammonia (asNH ₃) mg/l max	5.0
9.	Biochemical Oxygen Demand (3 days at 27 ° C) mg/l max	30
10.	Chemical Oxygen Demand, mg/l	250

- Adequate drainage system should be provided (if not already in place) all around the coal and fly ash storage sheds to collect the run-off and leachate from the sheds for treatment in the ETP.

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4. Effluent generated from the Power Plant should meet the following standards:

Source	Parameter	Concentration not to exceed, mg/l (except for pH and Temperature)
Condenser Cooling Water (once through cooling system)	pH	6.5 to 8.5
	Temperature *	Not more than 5°C higher than the intake
	Free available Chlorine	0.5
Boiler Blowdown	Suspended Solids	100
	Oil & Grease	20
	Copper (Total)	1.0
	Iron (Total)	1.0
Cooling Tower Blowdown	Free available Chlorine	0.5
	Zinc	1.0
	Chromium (Total)	0.2
	Phosphate	5.0

5. Provision should be made for setting up requisite number of permanent water quality monitoring stations on the natural water courses both upstream and downstream and selection of sampling points/stations should be made in consultation with this Board.
6. Monthly returns of water consumption for different purpose of usage should be furnished on or before the 5th day of every month in prescribed Form – 1.

C) Solid & Hazardous Waste Aspect:

1. Adequate facility should be created for collection, storage, transportation, treatment & disposal of Municipal Solid Waste generated from the Residential Colony and Industry (non-hazardous industrial solid waste).
2. Appropriate facility should be created for handling, storage, treatment & disposal of Hazardous waste generate from the industry in accordance to the provisions of the Hazardous Waste(Management, Handling & Trans Boundary Movement) Rules 2016 including Notification, Guidelines issued there under;
3. The utilization of Flyash should be in accordance to the provisions of the Notification No. S.O. 2804(E), dated 03.11.2009 issued by the ministry of Environment and Forests, GOI under the Environment (Protection) Acts 1986 for which action plan is to be prepared and submit to this Board.
4. Facility should be created for utilization of plastic waste as co-fuel in the kiln.


MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong

Copy to:-

1. The Director of Industries, Meghalaya, Shillong for kind information.
2. M/s **AMRIT CEMENT LIMITED**, C/o The Director, Opposite Horse Building, Lower Lachumiere, Shillong – 793001 for information and necessary action. The Firm is instructed to apply for further renewal of the Consent to Operate prior to expiry of the validity date.
3. TB-CON-2018-RCTO

Report No. : ENV/ACIL/AAQ/SEPT/2018-19/01

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s) ↓	Date of Sampling	PM 2.5	PM 10	NO ₂	SO ₂
			(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
Limit(s) →			60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	Near Guest House	22.09.2018	22.4	52.7	ND	ND
2.	MRSS 1 Near DM Plant	23.09.2018	25.3	56.1	16.2	5.8
3.	MRSS 2 Near Primary Crusher	23.09.2018	24.8	56.4	11.2	5.1
4.	Near Main Gate	22.09.2018	26.4	58.7	10.5	5.4

ND: Not Detected

Analysis Protocol: **IS 5182**

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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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.

Report No. : ENV/ACIL/FE/SEPT/2018-19/01

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
23.09.2018	Coal Storage Section	962	2000
22.09.2018	Lime Stone Storage Section	2516	5000



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/ACIL/SE/SEPT/2018-19/01

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	ACIL/SE/SEPT/2018/01		
02	Date of Sampling	22.09.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Flue Gas Temperature (°C)	61		
06	Exit Velocity of Gas (m/sec)	11.2		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	24.2	mg/Nm ³	30



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/ACIL/SE/SEPT/2018-19/02

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	ACIL/SE/SEPT/2018/02		
02	Date of Sampling	22.09.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No.1 B.F		
05	Flue Gas Temperature (°C)	64		
06	Exit Velocity of Gas (m/sec)	13.1		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	28.1	mg/Nm ³	30



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Report No. : ENV/ACIL/SE/SEPT/2018-19/03

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	ACIL/SE/SEPT/2018/03		
02	Date of Sampling	22.09.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
05	Flue Gas Temperature (°C)	206		
06	Exit Velocity of Gas (m/sec)	12.8		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	23.1	mg/Nm ³	30



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/ACIL/SE/SEPT/2018-19/04

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	ACIL/SE/SEPT/2018/04		
02	Date of Sampling	23.09.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
05	Flue Gas Temperature (°C)	35		
06	Exit Velocity of Gas (m/sec)	4.9		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	24.9	mg/Nm ³	30




Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/ACIL/SE/SEPT/2018-19/05

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	ACIL/SE/SEPT/2018/05		
02	Date of Sampling	23.09.2018		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	CPP		
05	Flue Gas Temperature (°C)	85		
06	Exit Velocity of Gas (m/sec)	10.2		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	35.6	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	549.7	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	224.8	mg/Nm ³	300



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/ACIL/SE/SEPT/2018-19/06

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	ACIL/SE/SEPT/2018/06		
02	Date of Sampling	23.09.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
05	Flue Gas Temperature (°C)	179		
06	Exit Velocity of Gas (m/sec)	12.7		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	21.2	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	814.2	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	517.6	mg/Nm ³	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/ACIL/NLM/SEPT/2018-19/01

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Area Code/Category: A/Industrial Area

Measurement Date: 23.09.2018

Sl. No.	Location(s)	Day Time			Night Time		
		Max. (dB-A)	Min. (dB-A)	Leq (dB-A)	Max. (dB-A)	Min. (dB-A)	Leq (dB-A)
1	Primary Crusher	71	66	69	65	57	62
2	Compressor Room	90	87	88	88	85	87
3	Turbine Floor	89	87	88	88	85	86
4	CPP Pump House	86	84	85	84	80	82
5	CPP Control Room	72	69	71	66	58	63
6	Coal Mill Area	72	66	68	67	58	64
7	Raw Mill Area	73	67	71	69	65	67
8	Raw Mill Cyclo Bottom	79	75	77	72	67	69
9	Kiln Burner Floor	85	83	84	82	79	81
10	CCR	63	59	62	56	51	54
11	Cooler Discharge	77	73	75	67	62	66
12	CSP Area	74	67	72	68	61	65
13	Cement Mill area	74	68	71	67	60	64
14	Packing Plant Area	75	70	72	58	51	56
15	Ash Storage Yard	67	62	64	53	46	49
16	Coal Storage Yard	63	57	61	51	42	46
17	Lime Stone Storage Yard	65	58	62	54	45	48
18	Garage	67	59	63	54	46	49
19	DM Plant	75	68	72	67	62	66



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/ACIL/NLM/SEPT/2018-19/02

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Area Code/Category: C/Residential Area

Measurement Date: 23.09.2018

Sl. No.	Location	Day Time			Night Time		
		Max. (dB-A)	Min. (dB-A)	Leq (dB-A)	Max. (dB-A)	Min. (dB-A)	Leq (dB-A)
01	Residential Area	46	39	43	35	31	34

Pankaj Baroi



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No. : ENV/ACIL/DW/SEPT/2018-19/01
Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD
Village: Umlaper, Elaka Rymbai
Meghalaya

DRINKING WATER ANALYSIS TEST RESULTS

Sample Type : Drinking Water
Sample Source : CCR

Collected By: Jointly by Envirocon & Client
Collected On: 23.09.2018

Sl. No.	Parameters	Results	Desirable Limit (IS:10500:2012)
01	Colour , Hazen Units, Max	<1	5
02	Odour	Odourless	Agreeable
03	Taste	Acceptable	Agreeable
04	Turbidity, NTU, Max	0.15	1.0
05	pH	7.1	6.5 – 8.5
06	Total Dissolved Solids, mg/l, Max	149	500
07	Aluminium (as Al), mg/l, Max	ND	0.03
08	Boron (as B), mg/l, Max	ND	0.5
09	Calcium (as Ca), mg/l, Max	27	75
10	Chloride (as Cl), mg/l, Max	3.7	250
11	Copper (as Cu), mg/l, Max	ND	0.05
12	Fluorides (as F), mg/l, Max	ND	1.0
13	Free Residual Chlorine, mg/l, Min	ND	0.2
14	Iron (as Fe), mg/l, Max	0.14	0.3
15	Magnesium (as Mg), mg/l, Max	3.4	30
16	Manganese (as Mn), mg/l, Max	ND	0.1
17	Zinc (as Zn), mg/l, Max	ND	5.0
18	Nitrate (as NO ₃), mg/l, Max	ND	45
19	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20	Sulfate (as SO ₄), mg/l, Max	21	200
21	Total Alkalinity(as CaCO ₃), mg/l, Max	82	200
22	Total Hardness, (as CaCO ₃), mg/l, Max	5.4	200
23	Cadmium (as Cd), mg/l, Max	ND	0.003
24	Cyanide (as CN), mg/l, Max	ND	0.05
25	Lead (as Pb), mg/l, Max	ND	0.01
26	Mercury (as Hg), mg/l, Max	ND	0.001
27	Selenium (as Se), mg/l, Max	ND	0.01
28	Total Arsenic (as As), mg/l, Max	ND	0.01
29	Total Chromium, (as Cr), mg/l, Max	ND	0.05
30	Anionic Detergents (as MBAS), mg/l	ND	0.2
31	Total Coliform, MPN/100 ml	NIL	10 Max
32	Faecal Coliforms/ 100 ml	NIL	Absent
33	E. Coli / 100 ml	NIL	Absent

Analysis Protocol: IS 3025

ND: Not Detected

Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No. : ENV/ACIL/ETP/SEPT/2018-19/01
Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD
 Village: Umlaper, Elaka Rymbai
 Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water
 Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client
 Collected On: 23.09.2018

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH	--	6.7	5.5 – 9.0
02	Temperature	°C	27.6	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	14	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	18	30
05	Chemical Oxygen Demand	mg/l	46	250
06	Oil & Grease	mg/l	1.2	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	14.6	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	25.7	100
10	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: **IS 3025**



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No. : ENV/ACIL/STP/SEPT/2018-19/01

Date : 04/10/2018

M/s AMRIT CEMENTS INDUSTRIES LTD

Village: Umlaper, Elaka Rymbai

Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Type : Treated STP Water
 Sample Source : STP Outlet

Collected By: Jointly by Envirocon & Client
 Collected On: 23.09.2018

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH	--	7.4	5.5 – 9.0
02	Temperature	°C	27.8	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	7.6	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	12	30
05	Chemical Oxygen Demand	mg/l	38	250
06	Oil & Grease	mg/l	0.7	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	10.5	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	18.2	100
10	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Registered Office: Opposite Horse Shoe Building, Lower Lachumiere, Shillong 793 001, Meghalaya | Ph: +91 364 2503192 | email: info@amrit.co.in

ACL/CPCB/ 2018-19/02

Dated: June 18, 2018.

To,
THE CHAIRMAN,
CENTRAL POLLUTION CONTROL BOARD,
(MINISTRY OF ENVIRONMENT & FOREST, GOVT OF INDIA),
"PARIVESH BHAWAN" EAST ARJUN NAGAR,
DELHI – 110032.

Sub: Directions under Section 5 of the Environment (Protection) Act, 1986 regarding compliance of emission limit notified vide notification No. S.O. 3305 (E) dated 07.12.2015 in Captive Power Plants (CPP) – reg.

Dear Sir,

In response to your letter No. B-33014/07/2018/IPC-II/TPP/673 dated April 16, 2018 (received on 26.05.2018), we are submitting herewith:

1. The details of the existing Limestone Feeding System provided in our Boiler for Flue Gas desulfurization -----ANNEXURE – 1.
2. The Action Plan – PERT Chart for its commissioning with any modification / alteration to meet the SO₂emission limits as required -----ANNEXURE -2,

For your kind consideration and perusal please.

Thanking you.

For Amrit Cement Ltd.

For, **Amrit Cement Ltd**

[Signature]
18/06/18
Authorized Signatory

Authorized Signatory.

Copy to-



Central Pollution Control Board
केन्द्रीय प्रदूषण नियंत्रण बोर्ड
Regional Directorate - North East, Shillong - 793014
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO *[Signature]*
DATED 29.6.18
.....

-Continue page -2

Amrit Cement Ltd.

Head Office: 226/1 A J C Bose Road, Trinity, 6th Floor, Kolkata 700020 | Ph: +91 33 4003 3441 | email: info@amrit.co.in

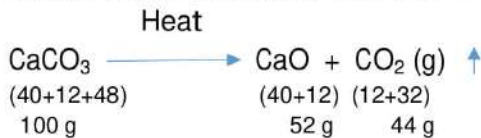
LIMESTONE FEEDING IN BOILER FOR FLUE GAS DESULFURISATION.

The rating of our CPP Boiler is 52TPH (Steam) @ 66Kg/Cm² Pressure and 490°C Temperature AFBC Type. It is designed with a Dry Limestone dosing System for Flue Gas desulfurization. Limestone is injected into the combustion furnace of the Boiler to absorb SO₂. Limestone reacts with SO₂, forming Calcium sulfite CaSO₃, which partially oxidizes to anhydrous Calcium Sulfate CaSO₄. The solid byproduct is collected at the bottom of the furnace as well as in the ESP.

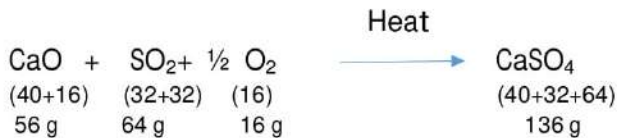
The details of the Dry Limestone dosing system are given below:

A. CHEMICAL REACTIONS:

1. Calcination Reactions @ 650-750°C Temperatures:



2. Desulfurization Reaction @ 700 – 850° C Temperature



From this equation, 64g of SO₂ needs 56g of CaO and 16g of O₂ to Desulfurize and produce 136g of CaSO₄ i.e. 0.875g of CaO and 0.25g of O₂ is required to desulfurize 1g of SO₂ and produce 2.125g of CaSO₄.

Since 1g of SO₂ requires 0.875g of CaO for desulfurization, So 1 g of S shall require 1.75g of CaO.

B. COAL CONSUMPTION AND SULFUR CONTENT:

- I. The design value of Coal Consumption is 6541Kg/Hr for Meghalaya Coal with a GCV of 6450 Kcal/Kg and Sulfur 1%.
- II. But the actual Av. Coal Consumption is 180 TPD due to GCV variations and highest Sulfur content experienced is 3.23%.
- III. Based on this Av. Coal Consumption DATA, The Max. Sulfur content in the coal works out to be 242.25 Kg/Hr (say 250Kg/Hr).
- IV. For desulfurization of 250Kg of Sulfur, 437.5 Kg of CaO is required per Hr i.e 951Kg of CaCO₃ (46%CaO) Say 950Kg per Hr.

C. Existing Lime stone feeding system details are as under:

- a. The Limestone Storage Hopper Capacity is 72MT.
- b. Four nos. Screw Feeders with VFD control are provided for feeding each bed of the furnace.
- c. The Screw Feeder specs are: 1.5KW, with a Max Feed rate of 1620Kg per Hr. All the four Screw Feeders can feed 6480 Kg / Hr of Limestone against our requirement of 950Kg / Hr.
- d. All the variations in the Raw Material parameters can be taken care of with this system.

(ANNEXURE – 2)

ACTION PLAN:

S.NO.	DESCRIPTION OF ACTIVITY	TARGET DATE
1.	Checking and Overhauling of Existing System	Sept. 2018.
2.	Trial of the System to evaluate performance	Sept. 2018.
3.	Identification of any modification / alteration required to meet the performance.	Sept. 2018.
4.	Detail engineering of the modifications	Dec. 2018.
5.	Procurement of materials and services etc.	Apr. 2019.
6.	Erection of the modifications	Aug. 2019.
7.	Testing and commissioning of system	Sept. 2019.
8.	Evaluation of the performance again	Sept. 2019.

Water Sprinkling Photographs at loading-unloading area & Road Site



Water Sprinkling Photographs at loading-unloading area & Road Site



Water Sprinkling Photographs at loading-unloading area & Road Site



Water Sprinkling Photographs at loading-unloading area & Road Site





AMRIT CEMENT LIMITED
MEGHALAYA
DISASTER MANAGEMENT PLAN

1. INTRODUCTION:

Emergency / Disaster planning is an integral part of the overall loss control program. It is essential for any well run organization. This is important for effective management of an accident / incident to minimize environmental impacts and loss to people & property in and around the installation.

Any accident, which has potential to develop into Emergency and can threaten large no of person or large area of plant on site affect the safety of public, property and environment. Therefore Emergency procedures are planned to protect plant, property, public and environment.

2. OBJECTIVES:

- Rapid control of the Hazardous situation,
- Minimizing the risk and impact of incident,
- Whether our system & resources are sufficient for handling of emergencies,
- Proper training of the concerned personnel, if required,
- Effective notification and communication system at the time of emergency.

DISASTER:

An industrial disaster can be defined as “**An occurrence of such magnitude so as to create a situation in which normal pattern of life with in an industry or installation is suddenly disrupted, adversely affecting not only the personnel and property within the installation but also in its vicinity.**”

3. Purpose:

This documented procedure is established and maintained for Emergency Preparedness & Response and planning the necessary mitigative measures in case of emergencies.

4. Scope:

CEMENT PLANT & CAPITIVE POWER PLANT

5. Responsibility:

Unit Head/Works Head / Admin Head / Divisional Head (Engineering) / HOD(Personnel) HOD (Medical & OHS) / HOD (Safety) / HOD (Security) and all concerned HODs are Responsible for implementing this procedure.



AMRIT CEMENT LIMITED
MEGHALAYA
DISASTER MANAGEMENT PLAN

Procedure:

The following areas are identified as potential emergency areas.

- HSD Storage – Fire
- Coal Storage – Fire
- Cyclone Jamming -- Hot material flow
- Electro Static Precipitators – Explosion
- Bag House -- Fire & Explosion
- Bags Godown – Fire
- Gas Cylinders Storage -- Fire & Explosion
- Lube Oil & Greases Storage – Fire
- Main Receiving electrical sub-station
- MCCs, PCCs & HT Panels -- Short circuit & Fire
- Belt conveyors – Fire
- Stores – Fire
- Air Receiver Tanks – Explosion
- TPP Boilers (CPP) -- Fire & Explosion
- TPP Turbo Generators (CPP) -- Fire, Explosion & Elec. Shock

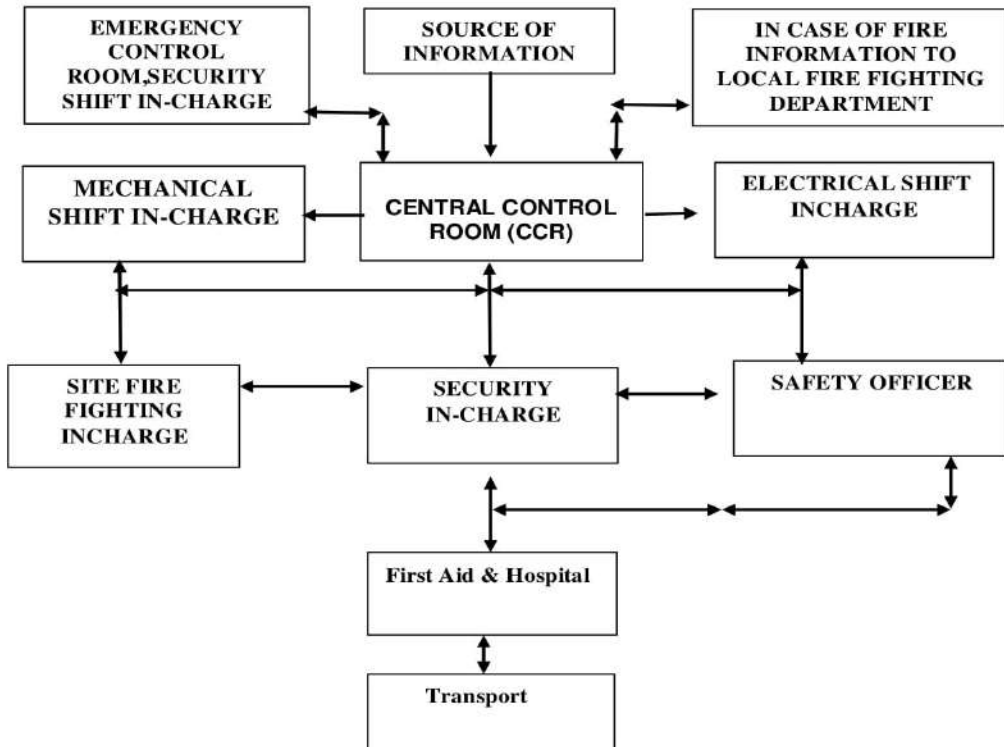
6. MAIN ELEMENTS OF EMERGENCY PLAN:

- Emergency Control Center
- Alarm systems
- Personal protection equipment.
- Fire fighting facilities, equipment and supplies. (As per Factories Act)
- Medical facilities, Equipment & Supplies.
- Monitoring systems.
- A communication media
- Transportation systems.
- Security and access control equipment.
- Entry / Exit gates
- Emergency Power source available by D.G. Set.



AMRIT CEMENT LIMITED
MEGHALAYA
DISASTER MANAGEMENT PLAN

**COMMUNICATION NETWORK
DURING EMERGENCY INCIDENTS**



Note:

1. Identified personnel either from operating plant will assume their designated roles & responsibilities, wherever applicable.
2. Control Room and Shift In-charge will act, wherever applicable. In such absences, Incident Controller will discharge multiple responsibilities.
3. Identified personnel either from operating plant will assume their designated roles & responsibilities, wherever applicable.
4. Control Room and Shift In-charge will act, wherever applicable. In such absences, Incident Controller will discharge multiple responsibilities.



AMRIT CEMENT LIMITED

MEGHALAYA

DISASTER MANAGEMENT PLAN

7. Role & Responsibilities of Each Coordination

i.) Responsibilities of CCR shift in-charge

- On hearing the information, CCR in-charge should rush to the spot as early as possible with all PPE. Following actions also be performed by CCR in- charge
- Direct all emergency operations within the affected area
- Direct rescue and fire fighting operations till safety and fire coordinator reaches to the spot
- Ensure that all persons are evacuated
- Guide the rescue team in search of /evacuate the casualties
- Advice fire personal in fighting the fire
- Take charge of responsibilities of Site emergency controller till he arrives
- Report all significant developments to Units head and all concerned.

ii.) Responsibilities of Mechanical shift in-charge

- Contact CCR in-charge at site.
- Decide about the plant to be shut down or not in consultation with mechanical HOD and unit head.
- Give instructions to representative plants for shut down and follow up the action taken
- Ensure proper shut down of the plant
- Inform about the status of plant to CCR in-charge.
- Any other work assigned by CCR in- charge.

iii.) Responsibilities of Electrical shift in-charge

- Ensure the availability of power for emergency operations
- Arrange for safe electrical circuits needed by CCR in-charge.
- Ensure power supply without interruption for the critical equipments and their functions as advised by CCR in- charge.
- Arrange for emergency maintenance of electrical equipment /services needed by CCR in- charge.
- Any other work assigned by CCR in-charge.



AMRIT CEMENT LIMITED
MEGHALAYA
DISASTER MANAGEMENT PLAN

iv.) Responsibilities of safety officer

- Ensure the availability of all safety equipments and PPE
- Arrange for the search of missing persons
- Ensure the preservations of evidences for the investigation of the incident
- Ensure that the on-site emergency operations are carried out safely
- Guide the fire officer/fire fighting team to control the spread of fire
- Arrange for further equipment /assistance for fire fighting if necessary
- Guide the rescue team members
- Pass instructions to restrict entry of visitors / vehicles to plant. Fire tenders and ambulances from mutual aid industries shall be allowed inside
- Any other work assigned by CCR in-charge.
- Investigate the accident to find out the causes

v.) Responsibilities of Security in-charge

- Arrange transport to bring the key personnel from their residence.
- Inform the hospitals to be ready for receiving the injured persons & for treatment
- Ensure the safe transport of the injured persons to the hospital
- Arrange transport for shifting of necessary equipment and materials to the emergency location
- Arrange for needed financial support for the emergency operations
- Arrange for rehabilitations of persons
- Mobilize additional medical facilities, if required
- Any other work assigned by CCR in-charge.

vi.) Responsibilities of fire fighting in-charge

- Guide the fire officer/fire fighting team to control the spread of fire
- Arrange for further equipment /assistance for fire fighting if necessary
- Guide the rescue team members
- Pass instructions to restrict entry of visitors / vehicles to plant. Fire tenders and ambulances from mutual aid industries shall be allowed inside
- Allow CCR in-charge team members to reach incident site
- Any other work assigned by CCR in-charge
- Investigate the accident to find out the causes



AMRIT CEMENT LIMITED

MEGHALAYA

DISASTER MANAGEMENT PLAN

8. COMMUNICATION SYSTEM:

In case of any emergency like Fire, Earthquake and Structure failure, the following steps are required to be followed:

- Any person who sees emergency - fire / structure collapse / earthquake etc has to immediately inform to Emergency Control Room (ECR) at Main Gate.
- The ECR/CCR telephone no. 8415921307 or 8974063909 has been displayed in all important places inside plant.
- ECR will coordinate with CCR In-charge, Safety Officer, security officer and fire fighting in-charge, local fire fighting station.
- If situation is not within their control or needs to activate the onsite emergency plan, the CCR in-charge to Emergency Control Room (ECR) to give **Emergency Siren by repeated long and short 03 times.**
- With the Emergency Siren, all coordinators should rush to ECR or to contact CCR in-charge for instructions & actions as per their respective role.
- With the Emergency Siren, all the employees should come out of the Office & working area and gathered in the assembly Points.
- The Security personnel & fire fighting team should immediately rush to Emergency Control Room to receive instruction & the exact location and nature of incident.
- After getting clearance from CCR in-charge, In-charge Emergency Control Room (ECR) at main gate will blow **clearance Siren by repeating long sirens twice for 30 seconds.**

Emergency Sirens

Emergency siren is placed near the CCR

Emergency Assembly Points

The following areas are identified as Emergency Assembly Points

- (i) In front of CCR
- (ii) In front of Packing Plant
- (iii) In front of CPP



AMRIT CEMENT LIMITED
MEGHALAYA
DISASTER MANAGEMENT PLAN

Emergency Control Room (Near Time Office):

During the emergency, the Emergency Control Center is managed by the Safety Officer (Control Room). Therefore, the ECC is equipped with adequate facilities & communication system as mentioned below:

Emergency Control Room List

SL. NO.	NAME OF THE ITEMS	QTY.
1	Stretcher	01 no.
2	Wheel Chair	01 no.
3	Blanket	04 nos.
3	First Aid Box with all items	01 set
5	Emergency Telephone	01 no.
6	Rescue Kit	01 set
7	Mega Phone/walkie talkie set	01 no.
8	Emergency Light	04 nos.
9	CPR breathing barrier along with a face shield/B.A.Set (self contained)	01 set
10	Emergency preparedness manual and a copy of your disaster plan, including your emergency contacts list	01 set
11	Pencil, pen, whiteboard, whiteboard pen set of different color	-
12	Whistle	12 nos.
13	Map of the area (for locating shelters and evacuation routes)	01 no.
14	Safety Helmet	12 nos.
15	Hand Gloves (cotton & leather)	12 Pairs
16	Nose Mask	100 nos.
17	Safety Goggles	12 nos.
18	Fire Extinguishers (ABC Type) – 5 Kg Capacity	02 no.
19	Fire Extinguishers (CO2 Type) – 4.5 Kg Capacity	02 no.
20	Fire Extinguishers (DCP Type) – 5 Kg Capacity	02 no.
21	Note Pad	04 nos.
22	Register	02 nos.
23	Aluminum Extension Ladder (Folding Type)	02 nos.
24	Emergency Response Team (ERT) Member Cap	10 nos.
25	Rope Ladder	06 nos.
26	Fireman AXE	2 nos.
27	Safety Belt	5 nos.
28	Emergency search light	2 nos.
29	Lifeline rope	2 nos.
30	Fire Suit	2 nos.
31	Hammer	2 nos.
32	Spade	2 nos.



AMRIT CEMENT LIMITED
MEGHALAYA
DISASTER MANAGEMENT PLAN

Action In Case of Following Emergency:

☐ IF WATER IS FLOODING:

a. Contact concerned authorities and provide them with the following information:

- (i) Your name
- (ii) Your location and extension
- (iii) Type of emergency - Water Flooding

b. Do not attempt to enter flooded areas without proper precautions (i.e. power shutdown to room/area). If possible, move property (office equipment, lab equipment, etc.) away from water flooding after necessary precautions have been taken.

c. Once the problem has been corrected, work can be resumed.

☐ TERRORISTIC ACT / EXPLOSION:

a. Be calm, courteous, listen, and do not interrupt the caller.

b. If possible, have a co-worker inform your supervisor that you are on the phone with a bomb/terrorist threat.

c. Be familiar with Terrorist Threat Report and write down actual words used by caller and general description of caller's voice and mannerisms.

d. Immediately contact the police authorities when caller hangs-up and provide them with the information outlined on Terrorist Threat Report.

e. When a terrorist threat has already been communicated directly to the department:

➤ As soon as the immediate emergency is over, write down all the details of the terrorist threat

➤ Immediately contact police authorities and provide them with the following information:

- (i) Your name
- (ii) Your location and extension
- (iii) The type of emergency - Bomb/Terrorist Threat
- (iv) Actual words used by caller
- (v) Location of bomb and time the bomb is to explode (if given).
- (vi) What the caller sounded like (sex, manner, etc.)
- (vii) Reason for threat (if given).

☐ EXPLOSION

a. Evacuate all personnel from immediate danger area.

b. Immediately call police authorities and provide them with the following information:

- (i) Your name
- (ii) Your location and extension
- (iii) The type of emergency - Explosion

c. If explosion leads to fire:

- Isolate the fire and smoke by closing doors, ensuring all personnel are removed from immediate danger.



AMRIT CEMENT LIMITED
MEGHALAYA
DISASTER MANAGEMENT PLAN

- Call the Fire Department.
- Evacuate using the nearest emergency exit stairs or ground exit.
NEVER USE ELEVATORS in the event of a fire.

COMMON EMERGENCY RESPONDANTS
(All Types of Emergencies)

Sl.	Name	Designation	Contact No.	Roles & Responsibilities
			Mobile No.	
1.	CCR	CCR In-charge	8415921307 8974063909	CCR In-charge
2.	Central Control Room	In-charge CCR	8415921307 8974063909	Emergency Co-ordinator
3.	Jay Narayan Singh	Asst. Safety Manager	8730007423	Fire & Safety Coordinator / Incident Controller
4.	Gopal Borah	Environment Executive	8415000238	Environment Coordinator
5.	Biswajit Majumder	Security Incharge	8730007437	Communication Co-ordinator
6.	Dilip Chaplot	Mechanical HOD	7085059178	Mechanical HOD
7.	RM Nongtdu	Instrumentation HOD	8730007399	Instrumentation HOD
8.	AK Tiwari	P & QC HOD	8730007516	P & QC HOD
9.	Sanjay Nandigramwar	Electrical HOD	9862425900	Power Co-ordinator
10.	Arumugam Veerabagu	Unit head	8730007456	UNIT HEAD
11.	Gajendra Sen	Store HOD	8415000245	Store HOD
12.	Pawan Kumar	AGM (Admin)	8974458650	AGM (Admin)
13.	Surendra Ram	Civil HOD	8415000239	Civil HOD
14.	S.N Mishra	S&D HOD	8415920944	S&D HOD
15.	Saurabh Kr. Bharti	IT HOD	8877837200	IT HOD
16.	Abdur Rahman	Sr. Medical Officer	8415901211	Health Coordinator



AMRIT CEMENT LIMITED
MEGHALAYA
DISASTER MANAGEMENT PLAN

MEGHALAYA EMERGENCY SERVICES:

Sr. No.	Emergency Services	Contact Number
1.	Police	100
2.	Fire	101/9436312427
3.	Ambulance	108/102
4.	Emergency Medical Response Services	108

Green Belt Development Details

Sl.No.	YEAR	AREA COVERED(ha.)	TYPE	NO. of Plant Planted,	Species of Plant Planted,
1	December 2011 to September 2018	Approx 5 ha	Trees	13,210	Aam, Agar, Amlakhi, Arjun, Ashoka, Ashoka Tree, Atlas, Bel, Bhat Ghilla , Bhelkar Bhomora, Bogi Poma, Bokul, Bonsun, Ejar Casheru, Dalchini, , Gamari,Ghora Neem, Guava, Gul Nemu, Holok, Jalpai, Jamun, Tetuka, Kadam, Kaji Nemu, , Leteku, Litchi, Kamini Kamchan,Kanchan,Kardoii, Mehgoni Kathal,Khakan, Korjatenga, Lemon, Moj, Nahor, Orange, Outenga, Raktalal, Sisoo, Chandan,Rawabtenga,Rohdoi,Segun,Silikha, Silver Oak, Sirish, Tea Tree, Titachap, Champa,Mango,Conesh,Elika Pam, Thuja, Amora,Jamuk, Holok, Semulu,Tejpat, Khakan, Hollong, Sonaru, Teteli, Boga Jamu.
			Seasonal Flower	3200	Calendula,Rose General/Chinese, Marigold, Hasnahana, Pelocia , Gagonia, Rose, Dahalia, Madhabilota, Bottle Plam, Vogan Vila, Golden Ficus, Black Ficus, Masunda,Sinaria,Lilim, Begonia ,Eraka Pamps,Aster, Liliyam, Begonia, Seneria Haidenia, Jinian,Sunflower, , Agonika, Shaiklomen, Dhalia ,Raino Glass, Polion Thus Etc.
			Grass sqm.	1150	Carpet Grass & Local Grass, Bamboo
Total		Approx 5 ha	Trees	13,210	
			Seasonal Flower	3200	
			Grass sqm.	1150	

Photographs of Green Belt Development



Photographs of Green Belt Development



Photographs of Green Belt Development



Photographs of Green Belt Development



Photographs of Green Belt Development



Amrit Cement Limited
Meghalaya
Report on CSR (Corporate Social Responsibility)
April, 2018 to September, 2018

CSR APPROACH-

Corporate Social Responsibility (CSR) is an integral part of Cairn's business philosophy and strategic planning, as sustainable and inclusive growth in our area of operation is essential for the holistic development of communities that are the target beneficiaries of our CSR initiatives.

The Company undertakes a range of activities to improve living conditions in its operational areas. It also conducts regular medical health camps create awareness regarding health, hygiene and safety among the people. Sustainability initiatives encompass education, healthcare, cultural events and others.

Health Care-

ACL has been conducting regular medical health camps & Mobile Clinic Consultancy Programme in his operational area under the guideline of expert team of medical staff including good doctors, Para medical staff or nurses with the aim to reduce the health problem in its operational area & create the good healthy environment among the community.

To conduct the regular medical health's checkup camp at village level.

To educate the villagers on various aspect of health & precaution required to keep healthy health.

Photos of Health Programme:-







EDUCATION :

Our aim towards strengthening the primary level education-

To aware, the parents towards the importance of education with support of teachers & educated youth at village level by starting the concept of PTA (Parents teacher association) to motivate the parents to send their children at school & take responsibility of care taking their children at home also.

To start some additional education classes at village level with the poor deserving students by the of support teachers & good educated youth to improve the existing system & value addition in existing system of education at primary level.

To motivate the parents & youth of villages to send their children's at school & reduce the case of drop out at village level.

Photos:-



Awareness Programme on Hygiene :



Awareness Programme on Safe Motherhood

India has among the highest number of maternal deaths of any country in the world today. Every five minutes one woman in India dies from complication related to pregnancy and childbirth. This result in over 100,000 mothers dying every year.

ACL has recognized the fact, in his initial work of field practice & decide to do the work on safe motherhood to reduce the mortality & morbidity ratio in its operational area. We are conducting regular awareness program on safe motherhood with the involvement of mothers & adolescence girls at field level under the supervision of expert ANM. Aspect which we are covering under safe motherhood programs:-

1. To inform & sensitize the community about the precaution to be taken before & after pregnancy.
2. To educate the women about the immunization system of child.
3. To aware, the women against the malnutrition & fooding pattern required during pregnancy.
4. To facilitate the women about the institutional delivery & various benefit under the JSY scheme of Government.

AWARENESS PROGRAMME ON ADOLESCENT GIRLS

Adolescence (between the ages of 11-18 years) is a transition period in life, when an individual is no longer a child, but not yet an adult. It is important to note that adolescents are not a homogeneous group – their needs vary according to gender, stage of development, life circumstances and socio-economic conditions. A general lack of understanding about the particular needs of Indian adolescents, specifically adolescent girls, persists in India and the wider global community. The Indian context calls for a focus on adolescent girls due to their general vulnerability, inaccessibility to basic health care and education, unmet sexual and reproductive health needs and rights, and age old traditions and misconceptions that have seen this cohort marginalized.

ACL has recognized the facts & taken initiating to create awareness among the adolescent girls to achieve the following objectives:-

- To Enable the Adolescent Girls for self-development and empowerment.
- To improve their nutrition and health status.
- To promote awareness about health, hygiene, nutrition, Adolescent Reproductive and Sexual Health (ARSH) and family and child care.
- To Upgrade their home-based skills, life skills and tie up with National Skill Development Programs (NSDP) for vocational skills.
- To Mainstream out of school AGs into formal/non formal education.
- To Provide information/guidance about existing public services such as PHC, CHC, Post Office, Bank, and Police Station.

Photos:-



REPORT SUMMARY OF AMRIT CEMENT EMPLOYEES (KHELERIHAT, MEGHALAYA)

SL. No.	Name of Employee	Age	Sputum AFB	Spirometry
1	SUNAR PRASAD DEORI	38 Y	Normal	
2	IKBAL HUSSAIN	33 Y		Mild Restrictive disease
3	SNEHANGSHU DAS	27 Y	Normal	Normal
4	REFIQUUL SIKDAR	29 Y	Normal	Normal
5	SUNIL SINHA	35 Y	Normal	Normal
6	GAUTAM PAUL	33 Y	Normal	Normal
7	SANJAY DAS	34 Y	Normal	Normal
8	GITANGSHU DAS	40 Y	Normal	Normal
9	MANOJ DAS	33 Y	Normal	Normal
10	MD KHURSHID ANSARI	47 Y	Normal	Normal
11	RIJUSH SINHA	26 Y	Normal	Normal
12	RANJIT TERON	28 Y	Normal	Normal
13	ABDUS SAMAD	30 Y	Normal	Normal
14	NERSWN BASUMATARY	30 Y	Normal	Normal
15	RAJIB BORO	30 Y	Normal	Normal
16	LOWIN MUKHIM	30 Y	Normal	Normal
17	DIPAK SINGHA	35 Y	Normal	Mild Restrictive disease
18	OM PRAKASH KUSHWAHA	45 Y	Normal	Normal
19	BIKRAMJIT DAS	35 Y	Normal	Normal
20	PANCHAM BASUMATARY	30 Y	Normal	Normal
21	UTTAM NANDI	42 Y	Normal	Normal
22	SUDIP DEB	30 Y	Normal	Mild Restrictive disease
23	MAHENDRA BASUMATARY	34 Y	Normal	Normal
24	DIPAK KHAKHLARI	32 Y	Normal	Normal
25	BIKASH ROY	25 Y	Normal	Normal
26	BISWAJIT SUKLA	28 Y	Normal	Normal
27	KAMAL GAYARI	30 Y	Normal	Mild Restrictive disease
28	ABDUS SUBHAN	33 Y	Normal	Normal
29	SANJAY KUMAR DAS	35 Y	Normal	Normal
30	MD SADIQUE	45 Y	Normal	Normal
31	BIJU ROY	30 Y	Normal	Normal
32	SAMIR DAS	32 Y	Normal	Normal
33	JABIR HUSSAIN	34 Y	Normal	Mild Restrictive disease
34	CHANDRA KANTA SINHA	53 Y	Normal	
35	SUNIL CHANDRA SINGHA	38 Y	Normal	
36	PRADIP KHANIKAR	35 Y	Normal	Normal
37	CHAMPAK GOGOI	30 Y	Normal	Mild Restrictive disease
38	PRAJAL CHABUKDHARA	28 Y	Normal	Normal
39	RAJU PURKAYASTHA	34 Y	Normal	Normal
40	JINTU BORA	30 Y	Normal	Normal
41	SUPARSOK DAS	30 Y	Normal	Normal
42	ABDULLA BARBHUYA	21 Y	Normal	Normal

SL. No.	Name of Employee	Age	Sputum AFB	Spirometry
43	SUKUMAR SINHA	37 Y	Normal	Normal
44	PURNANDA BORGHAIN	24 Y	Normal	Normal
45	DINESH CHAUDHARY	31 Y	Normal	Mild Restrictive Disease
46	DIPANKAR BARMAN	26 Y	Normal	Normal
47	KANCHAN SINHA	36 Y	Normal	Normal
48	PINJUMONI PHUKAN	26 Y	Normal	Normal
49	RUPAM GOGOI	28 Y	Normal	Normal
50	RAMA KANTA SINHA	33 Y	Normal	Normal
51	RANJAN RAI	28 Y	Normal	Mild Restrictive Disease
52	JAHIR AHMED MAZUMDAR	36 Y	Normal	Normal
53	RABI RAM RAMCHIARY	49 Y	Normal	Normal
54	AKMAL KHAN	23 Y	Normal	Normal
55	DIBAKAR NATH	35 Y	Normal	Normal
56	UJJAL BARBHUIYA	21 Y	Normal	
57	ALOK DAS	21 Y	Normal	Normal
58	HARI KUMAR SINGHA	42 Y	Normal	
59	SAROJ RAJA	24 Y	Normal	Normal
60	SURAJIT SINHA	45 Y	Normal	
61	DALIMUDDIN CHOUDHURY	26 Y	Normal	Normal
62	BISWA TAYE	32 Y	Normal	Normal
63	JIMMY FERNANDEZ	35 Y	Normal	
64	SANJAY MIRDHA	23 Y	Normal	Normal
65	GAUTAM RAI	40 Y	Normal	Normal
66	DURGA CHARAN	45 Y	Normal	
67	BIJOY SUTRADHAR	29 Y	Normal	Normal
68	SHRINIVAS KAMTAM	35 Y	Normal	Normal
69	RIPAN DEBNATH	40 Y	Normal	
70	RAMEL PRAJAPATI	50 Y	Normal	Normal
71	PULAK DAS	28 Y	Normal	Normal
72	SUNIL KR SINGH	39 Y	Normal	Normal
73	UTTAM KUMAR NATH	30 Y	Normal	Normal
74	LIPU PATOR	30 Y	Normal	Normal
75	UTPAL BORA	35 Y	Normal	Normal
76	JITU DAS	27 Y	Normal	Normal
77	SANATHOI SINGHA	29 Y	Normal	
78	PRADIP BISWAS	21 Y	Normal	
79	NABADIP SINHA	35 Y	Normal	Normal
80	MUMTAJ ALAM	44 Y	Normal	
81	PLLABJYOTI GOGOI	24 Y	Normal	Mild Restrictive Disease
82	BAMKIM PAUL	29 Y	Normal	Normal
83	S P SUKLA	38 Y	Normal	Normal
84	DILIP KALITA	50 Y	Normal	Normal
85	NINAN HAJONG	31 Y	Normal	Normal



SL. No.	Name of Employee	Age	Sputum AFB	Spirometry
86	GAMBHIR DAS	44 Y	Normal	Normal
87	AMULYA HAZARIKA	33 Y	Normal	
88	GAKUL SINGHA	28 Y	Normal	
89	MANGAL RABI DAS	22 Y	Normal	
90	ASHIRAM SWARGIARY	30 Y	Normal	Mild restrictive pattern
91	RANJAN SINHA	30 Y	Normal	Normal
92	PRADIP KUJUR	54 Y	Normal	Normal
93	RINKUMONI KALITA	22 Y	Normal	Normal
94	BISWAJIT SINHA	29 Y	Normal	Normal
95	BUDHA GOUR	40 Y	Normal	Normal
96	DEBENDRA PANDEY	25 Y	Normal	Normal
97	SIRAJ ALI	34 Y	Normal	Normal
98	BIJAY SHARMA	47 Y	Normal	Normal
99	NIRMAL SINHA	41 Y	Normal	
100	MD. SAKIL ALI	30 Y	Normal	Normal
101	ANUP PAUL	40 Y	Normal	Normal
102	JITENDRA KUMAR	28 Y	Normal	Normal
103	SUK BAHADUR	36 Y	Normal	Normal
104	SAHEB MANDAL	24 Y	Normal	Normal
105	PRANJAL BURAGOHAIN	32 Y	Normal	Normal
106	KANAK BHUYAN	34 Y	Normal	Normal
107	K BIRAJIT SINGHA	29 Y	Normal	Normal
108	NAYAN BORAH	28 Y	Normal	Normal
109	HARIKESH YADAV	26 Y	Normal	Normal
110	HERO NARZARY	28 Y	Normal	Normal
111	GAUTAM MALLIK	22 Y	Normal	Normal
112	KHARGESWAR MELANG	22 Y	Normal	Normal
113	SUBRATA SUKLABAIIDYA	29 Y	Normal	Normal
114	RANANJIT SINGHA	26 Y	Normal	Normal
115	SUHEL SINHA	19 Y	Normal	Mild Restrictive Disease
116	SADANANDA BORA	45 Y	Normal	Normal
117	LAKHI SAIKIA	42 Y	Normal	Normal
118	SUDIP CHANDRA ROY	26 Y	Normal	Normal
119	BIPON NATH	32 Y	Normal	Normal
120	RUDRA PRATAP SINGH	23 Y	Normal	Normal
121	AMARJIT SINHA	18 Y	Normal	Normal
122	ATABUR RAHMAN	27 Y	Normal	Normal
123	JATINDRA DAS	46 Y	Normal	Normal
124	TANU GOPAL SINGHA	38 Y	Normal	Normal
125	OM PRAKASH	26 Y	Normal	Normal
126	KAMAL BORA	28 Y	Normal	Mild Restrictive Disease
127	ZAKARIA AHMED	30 Y	Normal	Normal
128	ASHIM SINGHA	26 Y	Normal	Normal

SL. No.	Name of Employee	Age	Sputum AFB	Spirometry
129	JAMIL AHMED	25 Y	Normal	Normal
130	RAJ KUMAR SINGH	50 Y	Normal	Normal
131	T SHUKLA	57 Y	Normal	Normal
132	JAGANNATH DAS	25 Y	Normal	Normal
133	PREM KUMAR SINGH	38 Y	Normal	Normal
134	LAKHYAHIRA SAIKIA	24 Y		
135	BIKUL DAS	42 Y	Normal	Normal
136	PRASANTA DAS	25 Y	Normal	Normal
137	MITHUN PURKAYASTHA	37 Y	Normal	Normal
138	MANASH GOGOI	26 Y	Normal	Normal
139	DEBOJO PROLAY SANKAR	31 Y	Normal	Normal
140	RABINDRA SARKAR	58 Y	Normal	Normal
141	MANGAL CHAUTAL	21 Y		Normal
142	DHRUBAJYOTI GOGOI	27 Y	Normal	Normal
143	AMIT KUMAR	30 Y	Normal	Normal
144	ABBAS AHMED CHOUDHURY	30 Y	Normal	Normal
145	DURGESWAR DEORI	33 Y	Normal	Normal
146	AMIT DAS	22 Y	Normal	Normal
147	JUGANANDA PAYUN	23 Y	Normal	Normal
148	BISWAJIT SINHA	29 Y	Normal	Normal
149	BISWAJIT NAG	29 Y	Normal	Normal
150	RUPESH SINGH	28 Y	Normal	Normal
151	JYOTI BIKASH SARMA	29 Y	Normal	Normal
152	SANJAY SINHA	31 Y	Normal	Normal
153	JAHED BARBHUIYA	29 Y		
154	DHARMENDRA SINGH	34 Y	Normal	Normal
155	SANNI KUMAR YADAV	20 Y	Normal	Normal
156	SIMANTA GOGOI	21 Y	Normal	Normal
157	SAJJAD AHMED	26 Y	Normal	Normal
158	SANJAY KUMAR	25 Y		Normal
159	RANJIT SAIKIA	35 Y		Normal
160	GIRIJANANDAN SHARMA	35 Y		Normal

Your's faithfully
For, Saharia's Path Lab

Mr. Nilutpal Bhattacharyya
Manager



Amrit Cement Limited		
Meghalaya		
Recurring Expenditure towards Environment Protection		
From April, 2018 to September, 2018		
Sl No.	Particulars	Amount (Rs)
1	Replacement of Bag Filters/ Bags	425085.00
2	Maintenance of Bag House	8140000.00
3	Environmental Laboratory Cost	64010.00
4	Gardening/Greenbelt Development	27960.00
5	Third Party Testing & Monitoring	213816.00
6	Environmental Awareness Programe	8000.00
7	Salaries & Wages for Environment Monitoring & Lab maintenace	216000.00
	Total	9094871.00
Ninety lakhs, ninety four thousand eight hundred seventy one Rupees.		