

O/C

# AMRITCEM

Cementing Performance

Letter No: ACL/EHS/2023-24/23

Date: 25.10.2023

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

Subject : - Six month Compliance report of Environmental Clearance Letter of M/s. Amrit Cement Limited, Vill. Umlaper, Elaka: Rymbai. Khliehriat, East Jaintia Hills, Meghalaya.

Reference:- Environmental Clearance 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 Monthly Compliance Report of the given conditions of Environmental clearance vide letter no. J-11011/75/2009-IA-II (I).Dated 17.03.2010 from MOEF. along with results of monitored data for the period of April, 2023 to September, 2023.

All annexures are enclosed as mentioned in compliance report for your kind reference.

Thanking you,

Yours faithfully,  
FOR, AMRIT CEMENT LTD.

  
  
Authorized Signatory

  
Central Pollution Control Board  
CPCB  
Received  
Date: 22/11/23  
RD - Shillong

Encl: An mentioned above.

CC: 1. Regional Director, Central Pollution Control Board, Regional Directorate- North East, Lower Motinagar, Shillong, Meghalaya-79304.

2. Member Secretary, Meghalaya State Pollution Control Board, "ARDEN" Lumpyngngad, Shillong, Meghalaya-793014.

  
  
MSEPCB  
Shillong

  
STATE POLLUTION CONTROL BOARD  
SHILLONG

Amrit Cement Limited

CIN: U26940ML2008PLC008302

Plant: Village: Umlaper, Elaka: Rymbai, P.O./P.S. Khliehriat, Dist: East Jaintia Hills, Meghalaya 793 200 |

Registered Office: Opposite Horse Shoe Building, Lower Lachumiere, Shillong 793 001, Meghalaya  
Ph: + 91 354 250 3192 | email: info@amrit.co.in | website: www.amritcement.com

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# AMRIT CEMENT LIMITED

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CIN: U26940ML2008PLC008302

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

## COMPLIANCE STATUS

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

Period: From 1<sup>st</sup> April, 2023 to 30 September, 2023.

### (A) Specific Conditions:-

Sl. No.	Conditions	Compliance
i)	No Mining activity shall be started at the site without proper environmental clearance/ consent from the Central/State Government	There is no mining activity going on at our site.
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 50 mg/Nm <sup>3</sup> 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.	The installation process of "Online Ambient Air Quality Monitoring System" is under progress. Three offers has been collected from different vendors in this regard & vetting is on-going as per company's standard vendor selection policy to issue PO or work order which is targeted to release within Oct'23 and installation is expected to complete by Mar'24. The Continuous stack monitoring facilities are already installed in Cement mill, Cooler, RABH, Coal mill and CPP sections. In addition, to control pollution or dust emission, high efficiency ESP has been installed in Clinker cooler and CPP whereas bag filters are installed in RABH, Cement mill and Coal mill sections. Thus, with these high efficiency pollution control equipments, SPM is being maintained well within specified limit i.e. 30 mg/Nm <sup>3</sup> (G.S.R. 612(E) dated August 25, 2014). All Chimneys /stacks are installed areas as 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 glenscpcb.glensserver.com
iii)	An action plan shall be prepared and submitted to the Ministry's Regional Office at Shillong, for the control of SO <sub>2</sub> emissions from the captive power plant.	A separate lime feeding hopper for boiler is already installed to control SO <sub>2</sub> emissions in CPP section.

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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 is following the National Ambient Air Quality Emission standards 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.	The company is in process to engage a competent third party to carry out the study regarding the feasibility for full utilization of gases generated from the Kiln in Waste Heat Recovery Boiler (WHRB). The report will be submitted to Regional Office- MoEFCC, Shillong and Ministry, New Delhi by Jan'24.
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 stock piles shall be covered. A closed clinker stockpile system shall be provided. All conveyers shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in soils. Pneumatic system shall be used for fly ash handling.	The company is regularly using the water tanker to spray water in raw material stock yard, cement bag loading area, approach road and other vulnerable areas to reduce fugitive emission. Currently, permanent Water Sprinkler System has been installed between Coal yard to Store section by covering a distance of approx. 300 mtrs. Another permanent water sprinkling system is installed in lime stone conveyer belt. In addition, the company is in process of installing permanent sprinkling system in other vulnerable areas. Average water used in sprinkling system is 80 KL/day during dry season. The raw materials viz. Clinker, fly ash and gypsum are stored in covered sheds. Finished products are stored in silos.  <b>Photographs are attached as Annexure-I.</b>
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 Control 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.	Concreting of approach road starting from NH-6 to Plant main gate is under progress. Concreting of approx. 1200 mtrs has been done and remaining concreting project activities is expected to complete by Dec'23 (approx. remaining distance is 2400 mtrs). Water spray in all around the stockyard, transfer points, crusher point, stock yards and loading/unloading areas is being done regularly during dry season by deploying water tanker and permanent sprinkling system, details may be referred from SL No. Vi. Ambient air quality parameters are as per norms and relevant 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. All the materials are being transported in covered chute or trucks.  Relevant documents in support of the claim is produced as "Annexure- II".

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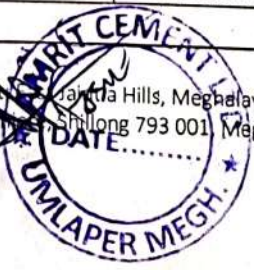
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viii)	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the least permissible limits issued by the ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R 414(E) dated 30 <sup>th</sup> May, 2008 shall be followed.	All necessary steps are taken for proper control of emission levels including secondary fugitive emissions from all the sources within the least permissible limits as per 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 monitored.	Raw materials and end products are being transported in covered containers, overloading is strictly prohibited. Vehicular emissions record are being maintained at security main gate regularly.
x)	Total water requirement for cement plant from River Thaw Dolia shall not exceed 2100 m3/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 shall be discharged outside the factory premises and 'zero' discharge shall be adopted.	We are taking water from Thaw Dolia river for about 1000 to 1200 m3/day. 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 is being collected in a separate tank. No process water is discharged outside factory premises and Zero discharge is adopted. There is a provision of installing new ETP nearby newly constructed Automobile shed within Plant area, the proposed capacity of ETP will be approx. 20 KL/day. Offers has also been collected from different vendors in this regard and being vetted to issue work order by Oct'23 following company's standard parameters and project activity is targeted to complete by April'24.  Relevant documents in support of the claim are produced as "Annexure- III ".
xi)	Permission for the drawl of 2,100 m3/day water from River Thaw Dolia 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 composted and used for the green belt development. Non-biodegradable waste shall be land filled at	Permission for drawl of 2100 m3 / day water from river Thaw Dolia is already obtained. STP is installed for the treatment of domestic effluent and treated effluent shall be used for green belt development. Another new STP installation activity is under progress nearby colony area within Plant premises. All necessary equipment for STP has reached in Plant. The new STP will be functional by Dec'23. The capacity of STP will be approx. 200 KL/day which will treat domestic effluent. Further, the treated effluent shall be used for green bent development activity.  Relevant documents in support of the claim are produced as "Annexure-IV".

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	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 sources.	During rainy season, we are not drawing water from river Thaw Dolia. However, to fulfill the requirement, water is being collected from natural waterfalls/springs by gravity and stored in available reservoirs.
xiii)	All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Combustible wastes along with spent oil will be used as fuel in the kiln. Non-combustible wastes shall be land filled for composting and non-compostable waste. STP sludge shall be used as manure for green belt development. Spent/used/waste oil and batteries shall be sold to authorized recyclers/reprocesses only.	All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices are being recycled and reused in the process and used for cement manufacturing. Spent/used/waste oil is used as lubricant in plant machineries and batteries are being sold to authorized recyclers/reprocesses. Non-combustible waste is landfilled to make compost and non-compostable waste. STP sludge is used as manure for green belt development.
xiv)	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	Low grade lime, more fly ash and solid waste are being used in cement manufacturing.
xv)	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly. 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 company is exploring the possibilities of using high calorific hazardous waste in cement kiln. In addition, the company shall discuss with Municipal Board- Jowai and Municipal Board- Shillong regarding the usage of municipal wastes in cement kiln. A feasibility report in this regard shall be submitted to Regional Office- MoEFCC, Shillong, by Mar'24.
xvi)	All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003. Efforts shall also be made to use fly ash maximum in making Pozollona Portland Cement (PPC)	We are making maximum use of fly ash in making Portland Pozzolana Cement (PPC).
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.	It has been submitted at factory inspector office and the approval is awaited.
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.	Greenbelt development has been done in 12.97 Ha land out of approx. 15 Ha land (33% of Plant area) till date. And, plantation activity for greenbelt development in remaining 2.04 Ha shall be carried out in phase manner and expected to complete by Jun'24.  Relevant documents in support of the claim is produced as "Annexure-V".

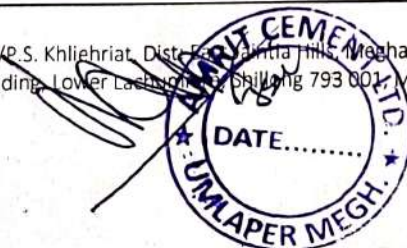
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xix)	Recommendation and permission of the State Forest Department regarding impact of proposed plant on surrounding reserve forest, if any, shall be obtained and implemented. Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.	<p>The company has received an email from PCCF (WP, R&amp;T and DCA), Govt. of Meghalaya requesting to submit certain information on preparation of conservation plan. The process for submitting the desired information is underway as the final report on preparation of Regional conservation plan is being awaited which will be prepared by concern dept. of Govt. of Meghalaya (State Forest Dept.).</p> <p>There is no reserve forest adjacent to the plant area. Therefore, as per the advice of MoEFCC, an application to obtain distance certificate has been submitted to State Forest Department and the same is expected to get by Oct'23. Further, a copy of the certificate shall be submitted to MoEFCC for record/reference.</p> <p>Copy of the stated application, email is produced as "Annexure-VI"</p>
xx)	All the recommendations made in the Charter on Corporate Responsibilities for Environment Protection (CREP) for the Cement plants shall be implemented.	<p>All the CREP recommendations are being followed.</p> <ul style="list-style-type: none"> <li>• Noted and respective pollution control equipments have been installed to mitigate and control pollution in the industry.</li> <li>• The company has always done monitoring near colony and industry area to see scenario of environment and found below the permissible limits as given by competent authority.</li> <li>• Provision of automatic packing of clinker through bulk loading system is available. The suction of bag filters is provided in packing section to avoid dust emission during clinker loading.</li> <li>• Awareness promotion drives are being organized through various environmental training, environmental display board, competitions, presentations etc., on world environment day, energy conservation day etc.</li> </ul>
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, crèche etc. The housing may be in the form of temporary structures 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 9 <sup>th</sup> November, 2009 shall be satisfactorily implemented and separate budget for	The company could not trace the copy of public hearing proceeding. Hence, contacting the Meghalaya State Pollution Control Board to get a copy of the same. Once the copy is received, a detailed report on the

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	implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Shillong.	implementation of commitments made shall be submitted to Regional Office- MoEFCC, Shillong and Ministry.
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 shall 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.	In connection with the point to earmark at least 5% of the total project cost for CSR, a budget of approx. Rs.53 lac is proposed to spend in FY 23-24 by company under CSR obligation in different areas such as Livelihood & skill development, Health care, Education, Rural infrastructure development, Environment protection, Water conservation and others. However, it can be mentioned that Rs.58.41 lac was earmarked for FY 22-23 for CSR from which Rs.3.41 lac was spent in several project activities and remaining amount of Rs. 54.99 lac has been transferred to Unspent CSR account within specified time for ongoing CSR project as per rule.

## (B)General Conditions:-

Sl. No.	Conditions	Compliance
i)	The project authority must adhere to the stipulations made by Meghalaya state Pollution Control Board (MSPCB) and state government.	M/S Amrit Cement Limited, 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 this Ministry.	No further expansion or modification of the plant is being carried on without prior approval of the competent authorities.
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 <sub>2</sub> and No <sub>x</sub> 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 carry out ambient air monitoring, stack emission monitoring and noise level monitoring work. The six months data of ambient air quality and stack emissions are being submitted regularly to MOEF Regional office, Shillong.  Monthly ambient air quality monitoring reports are enclosed as <b>Annexure- VII</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 <sup>th</sup> May 1993 and 31 <sup>st</sup> 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 afterwards it is being used for dust suppression and plantation purpose. We are maintaining zero discharge strictly.

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# AMRIT CEMENT LIMITED

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v)	The overall noise level in and around the plant area shall be kept well within the standards (85 dB (A) 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)	<ul style="list-style-type: none"> <li>• All possible measures are being taken to control noise of all noise creating machineries to ensure that these operates under permissible limit only.</li> <li>• We are maintaining overall noise level in and around the plant area well within the prescribed standards 85 dBA.</li> <li>• The ambient noise is controlled within the standards prescribed limit under EPA Rules viz., 75 dB (A)-Daytime and 70 dB (A)-Night time.</li> <li>• The monitoring is carried out regularly and monitoring report attached in <b>Annexure- VIII</b></li> </ul>
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 tests once in six months.	<p>Following processes has been initiated to ensure proper housekeeping within plant area,</p> <ul style="list-style-type: none"> <li>(i) Plant has been divided into 10 different zones,</li> <li>(ii) All zones perform housekeeping activity in their respective area twice in month</li> <li>(iii) Scraps collected during housekeeping activity are stored in designated red tag area or scrap yard (adjacent to Store)</li> <li>(iv) 5S has been initiated</li> </ul> <p>The Occupational Health surveillance programme are being done on regular basis and records are being maintained. The tests for Lung Function and Sputum Analysis were done by engaging third party i.e. M/S MediClinic, Guwahati</p> <p>Copy of supporting Document are produced as "<b>Annexure- IX</b>"</p>
vii)	The company shall harvest the rainwater from the roof tops and storm water drains to recharge the ground water.	<p>A ground water recharge pit has been constructed inside plant area (adjacent to Admin building) which is connected to the drains. Storm water during rainy season flows to the recharge pit for ground water recharge through the drains. The approx. capacity of the recharge pit is 4000 ltrs. Another rooftop rainwater harvesting structure for ground water recharge with a capacity of approx. 5000 ltrs is planned to construct within Jan'23.</p> <p>Copy of supporting photographs are produced as "<b>Annexure- X</b>"</p>
viii)	The company shall undertake eco-development measures including community welfare measures in the project area.	<p>Eco-development measures are part of company's CSR intervention plan. The activities planned to perform under Eco-development measures are mentioned in proposed CSR plan for FY 23-24</p> <p><b>May refer "Annexure XI"</b></p>
ix)	The project proponent shall also comply with all	Following devices has been installed to prevent stack

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	<p>the environmental protection measures and safeguards recommended in the EIA/EMP.</p>	<p>emission,                  (i) 2 Electrostatic Precipitators has been installed respectively in CPP and Cooler sections                  (ii) 3 Bag filters has been installed respectively in RABH, Coal mill and Cement mill sections                  Following measures are being taken for preventing fugitive emission,                  (i) Permanent Water Splinkler System has been installed between Coal yard to Store section by covering a distance of approx. 300 mtrs and installation of automatic sprinkling system in other areas of plant is planned. Currently, the water tanker is also engaged regularly to spray water in raw material stock yard, cement bag loading area, approach road and other vulnerable areas to reduce fugitive emission. Average water used in sprinkling system is 60 KL/day during dry season                  Regular testing &amp; monitoring of environment                  (i) Monthly testing &amp; monitoring of noise pollution, ambient air quality, stack emission, fugitive emission, drinking water quality, (ETP) effulant water quality, sewage water quality (STP) happens by third party                  Plantation and greenbelt development                  (i) Greenbelt development has been done in 12.76 Ha land out of approx. 15 Ha land (33% of Plant area) till date.</p> <p>Supporting's are produced as "Annexure-XII"</p>										
<p>x)</p>	<p>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.</p>	<p>Required instrument has been purchased &amp; full-fledged environmental lab is established and the same is functional. The overall environment management cell is controlled by Environmental Senior Executive.                  Supporting Photographs "Annexure-XIII"</p> <table border="1" data-bbox="804 1384 1528 1563"> <tr> <td>Name :</td> <td>Jeetendra Kumar Pandeey</td> </tr> <tr> <td>Qualification :</td> <td>M.Sc. (Environmental Science)</td> </tr> <tr> <td>Total Experience :</td> <td>9th Year</td> </tr> <tr> <td>Designation :</td> <td>Senior Executive</td> </tr> <tr> <td>Department :</td> <td>Environment, Health &amp; Safety</td> </tr> </table>	Name :	Jeetendra Kumar Pandeey	Qualification :	M.Sc. (Environmental Science)	Total Experience :	9th Year	Designation :	Senior Executive	Department :	Environment, Health & Safety
Name :	Jeetendra Kumar Pandeey											
Qualification :	M.Sc. (Environmental Science)											
Total Experience :	9th Year											
Designation :	Senior Executive											
Department :	Environment, Health & Safety											
<p>xi)</p>	<p>As proposed Rs. 50.00 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by Ministry of Environment &amp; Forests as well as the State Government and submit implementation schedule for all the conditions stipulated herein to the Regional Office of this</p>	<p>The fund is being used for maintenance of pollution control equipment's, conducting regular monitoring of environmental parameters by engaging third party, green belt development and training programs as per CPCB guideline. The recurring cost is attached as "Annexure-XIV"</p>										



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	Ministry at Shillong / Central Pollution Control Board/Meghalaya State Pollution Control Board. The funds so provided shall not be diverted for any other purpose.	
xii)	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 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 Regional Office of the MOEF at Shillong, the respective Zonal Office of the CPCB and the Meghalaya SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> & NO <sub>x</sub> (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.	The project proponent is uploading the status of compliance of prescribed environment clearance conditions along with the results of the monitored data on its website and the same is being updated from time to time. It is sent simultaneously to the Regional Office of the MoEF at Shillong, the concerned Regional Office of the CPCB and the Meghalaya SPCB. Criteria pollutant level ie; SPM, RSPM, SO <sub>2</sub> and NO <sub>x</sub> (ambient level as well as stack emissions) or critical apparel parameters, are monitored as indicated for the projects and displayed in public domain by LED display at a convenient location near the main gate of the company.
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 of 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.	We submit six monthly reports on the status of compliance as per the prescribed environmental conditions along with the results of the monitoring data (both in hard copy as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the Meghalaya SPCB.
xv)	The environmental statement for each financial year ending 31 <sup>st</sup> 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.	We submit the Environmental Statement in Form-V for each financial year ending 31st March to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently. The status of compliance of environment conditions is uploaded on the website of the company and also sent to the concerned regional offices of MoEF by e-mail.

Plant: Village: Umlaper, Elaka: Rymbai, P.O./P.S. Khliehriat, Dist: East Jaintia Hills, Meghalaya 793200 | Ph: + 91 364 230 7077 | email: [info@amrit.co.in](mailto:info@amrit.co.in)  
Registered Office: Opposite Horse Shoe Building, Lower Tachiar, Shillong 793 001, Meghalaya | Ph: + 91 354 250 3192 | email: [info@amrit.co.in](mailto:info@amrit.co.in)



# AMRIT CEMENT LIMITED

**AMRITCEM**  
Cementing Performance

**CIN: U26940ML2008PLC008302**

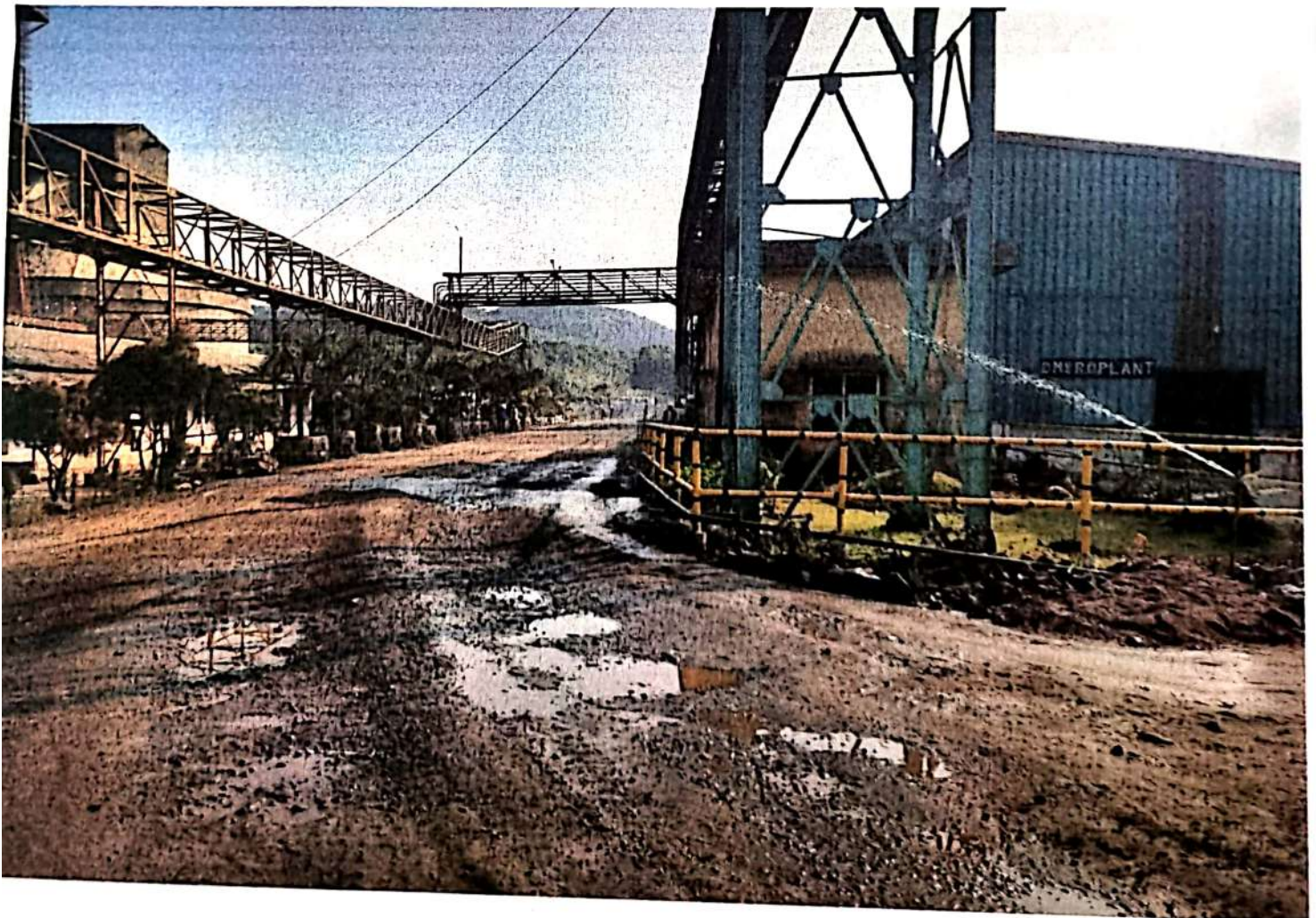
xvi)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Meghalaya SPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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.
7.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory.	Noted
8.0	The Ministry reserve the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted
9.0	Any other conditions or alterations in the above condition will have to be implemented by the project authorities in a time bound manner.	Noted
10.0	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
11.0	The above conditions shall be enforced inter- alia under the provision of the water (Prevention & control of Pollution) Act, 1974, the Air (Prevention & control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the public (Insurance) Liability Act, 1991 along with their amendments and rules.	Noted

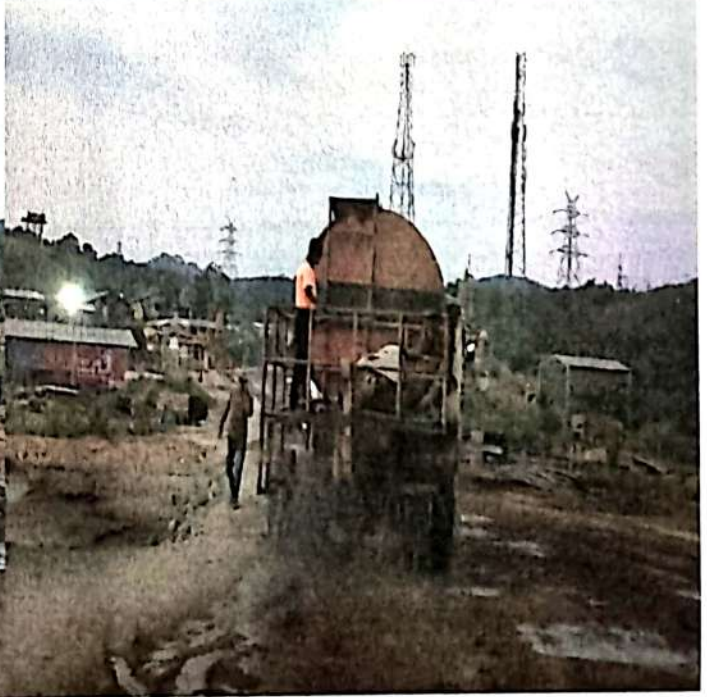
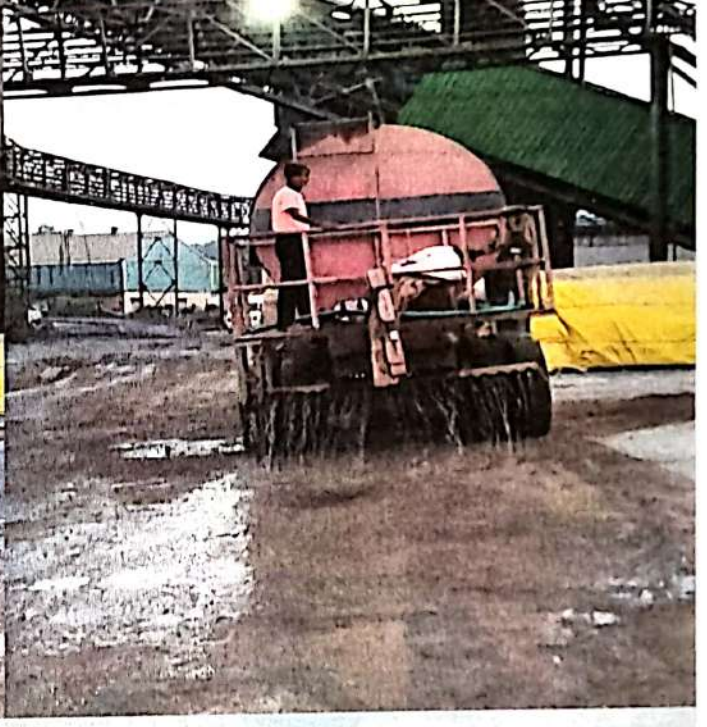
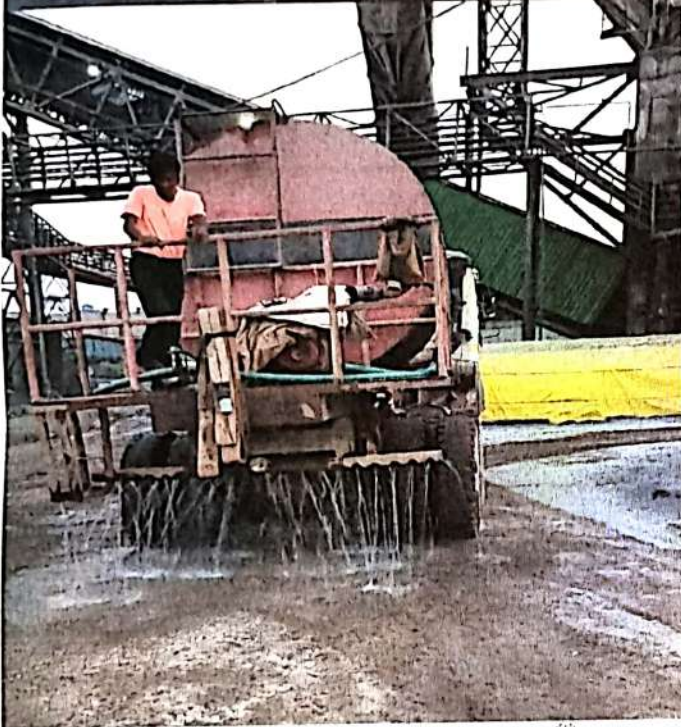
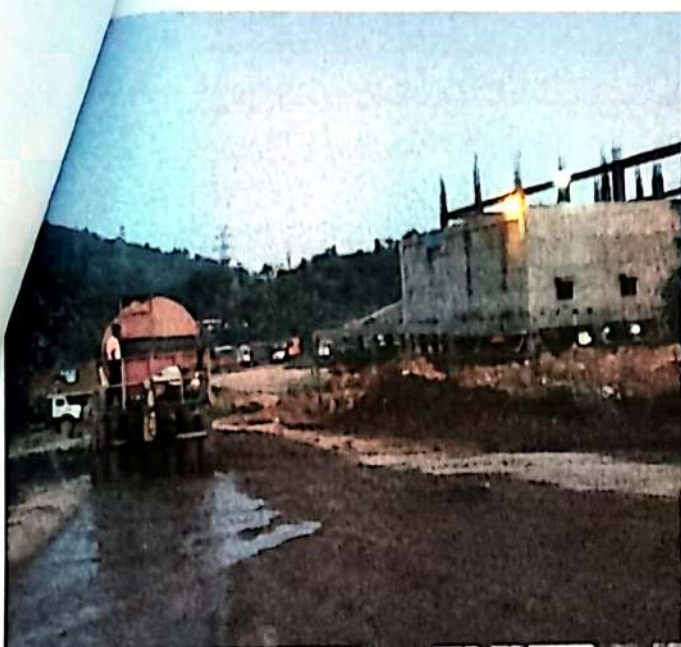
Plant: Village: Umlaper, Elaka: Rymbai, P.O./P.S. Kniehria, Dist. Jaintia Hills, Meghalaya 793200 | Ph: + 91 364 230 7077 | email: [info@amrit.co.in](mailto:info@amrit.co.in)  
Registered Office: Opposite Horse Shoe Building, Lower Lachumore, Shillong 793 001, Meghalaya | Ph: + 91 354 250 3192 | email: [info@amrit.co.in](mailto:info@amrit.co.in)



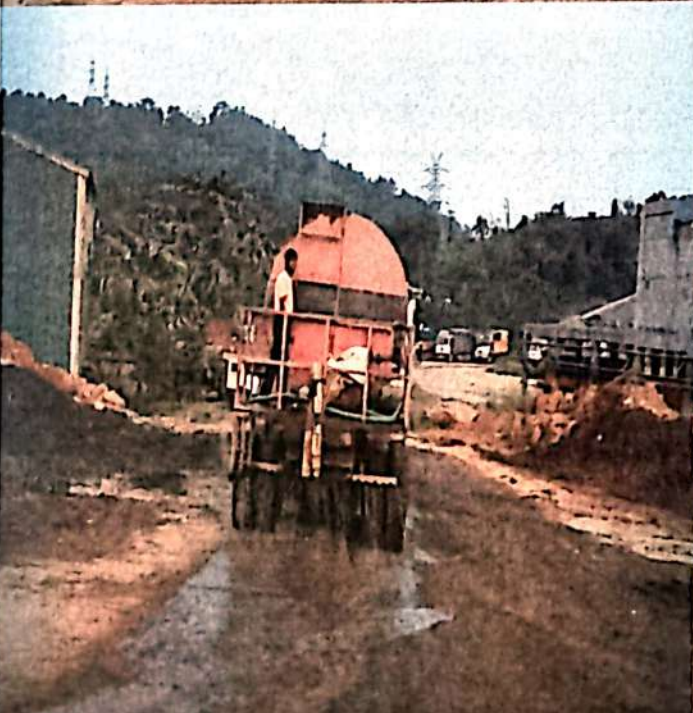
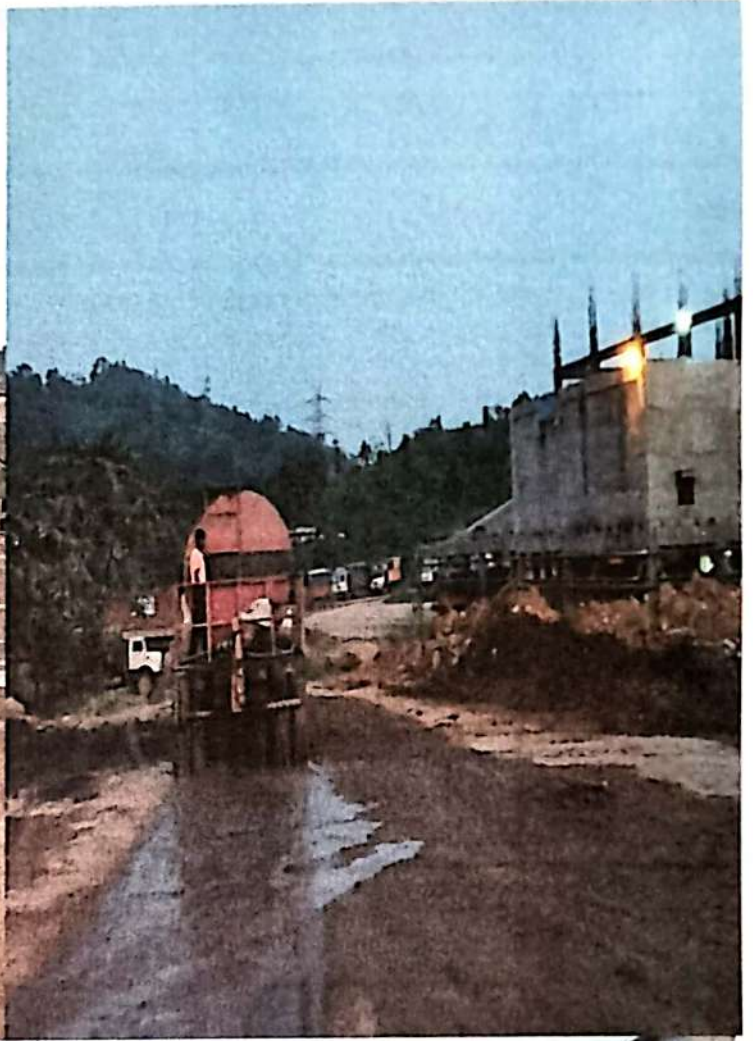
**Water Sprinkling System**

Water Sprinkling Photographs at loading-unloading area & Road Site





Water Sprinkling Photographs at loading-unloading area & Road Site



# Photographs of Green Belt Development





# Photographs of Green Belt Development





**Concreting road Photograph**

## Concreting Road Photograph



**Water Consumption Reports**

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Amrit Cement Limited, Meghalaya

# AMRITCEM

Cementing Performance

Water Consumption Report- Amrit Cement Limited, (April to Sep-23).				
Months	Water Consumption	Total Consumption of Water (KL)	Total Consumption Per Month (KL)	Total Average Consumption Per Day (KL)
April - 2023	Industrial use Water	29548.1	42798.1	1426.60
	Domestic use Water	13250		
May-23	Industrial use Water	30275.4	43875.4	1415.34
	Domestic use Water	13600		
Jun-23	Industrial use Water	24291.7	37641.7	1254.72
	Domestic use Water	13350		
Jul-23	Industrial use Water	25980.6	39350.6	1269.37
	Domestic use Water	13370		
Aug-23	Industrial use Water	25771	39461	1272.94
	Domestic use Water	13690		
Sep-23	Industrial use Water	17231.6	30371.6	1012.39
	Domestic use Water	13140		

**STP Photograph and Equipment purchase  
details**

AMRIT CEMENT LTD  
STP  
SEWAGE TREATMENT  
PLANT  
CAPACITY-200KLD







DELIVERY CHALLAN

MEM MUNSHI LANE  
 ALAMBAZAR, KOLKATA - 700035  
 STATE CODE - 19  
 GST NO - 19AARFT4055H1ZQ  
 HSN NO. - 8421

CHALLAN NO.	TS/007/DJ23-24
CHALLAN DATE	03-05-2023
VENDOR CODE	NIL
ORDER NO.	3000000197/HO
ORDER DATE	22-03-2023
VEHICLE NO.	WB23D1323

SHIPPING ADDRESS  
 M/s. AMRIT CEMENT LTD.  
 Rymbai Elaka, Umlaper Village,  
 Div- Khliehriat, Dist- East Jaintia  
 Hil, Meghalaya-793200

IGSTN NO- 17AAGCA9080R1ZW  
 Contact Person: Mr. Jeetendra Pandey  
 Contac No. : 08415000238

SL NO	PRODUCT	QUANTITY
1	PLASTIC BAG(Sand-25, Carbon-10, Anthrasite-05, MBBR-04, Alum-01, Lime-01, Bleaching-1, Stone-04, Cartridges-01, Manganig-06)	58 NOS.
2	WOODEN CARTOON(AIR BLOWER 1HP)	02 NOS.
3	CARTOON Housing )	04 NOS.
4	CARTOON PUMPSLUDGE (1 HP JGC	02 NOS.
5	CARTOON PUMP(1HP & 1.5HP) CG	04 NOS.
6	CARTOON Cartridges)+others	06 NOS.
7	MS FLASH MIXING TANK	01 NO.
8	CARTOON BACTA CULT(20KGS)	01 NO.
9	DOSING TANK PVC+ Chlorine 25Ltrs-01	03 NOS.
10	MS SECONDARY SETTLING TANK	01 NO.
11	MS MULTI GRADE FILTRATION TANK	01 NO.
12	IRON PUMP STAND	04 NOS.
13	IRON PUMP COVER	04 NOS.
14	IRON CARTRIDGES HOUSING 6" TOOL	04 NOS.
15	MS LADER	01 NO.
17	MS PLATE	01 NO.
18	PIPE BUNDLE	03 NOS
19	CARTOON ELECTRIC PANEL	01 NO.
20	CARTOON FRP	03 NOS
21	WOODEN CARTOON OIL SKIMMER	01 NO
	TOTAL	105 NOS.

22/05/23

*(Handwritten signature)*

THE SUN  
 SIGNATURE  
 THE SUN

17, HATEM MUNSHI LANE  
 ALAMBAZAR, KOLKATA - 700035  
 STATE CODE - 19  
 GST NO. - 19AARFT4055H120  
 HSN NO. - 6421

**TAX INVOICE**

ORIGINAL FOR RECIPIENT   
 DUPLICATE FOR   
 TRANSPORTER   
 TRIPPLICATE FOR   
 SUPPLIER   
 EXTRA   
 COPY

**BUYER'S DETAILS**

M/s. **AMRIT CEMENT LTD.**  
 Rymbai Elaka, Umlaper Village, Div-  
 Khliehriat, Dist- East Jaintia Hil,  
 Meghalaya-793200.

INVOICE NO.	TS/009/23-24
INVOICE DATE	03-05-2023
VENDOR CODE	NIL
ORDER NO.	3000000197/HO
ORDER DATE	22-03-2023

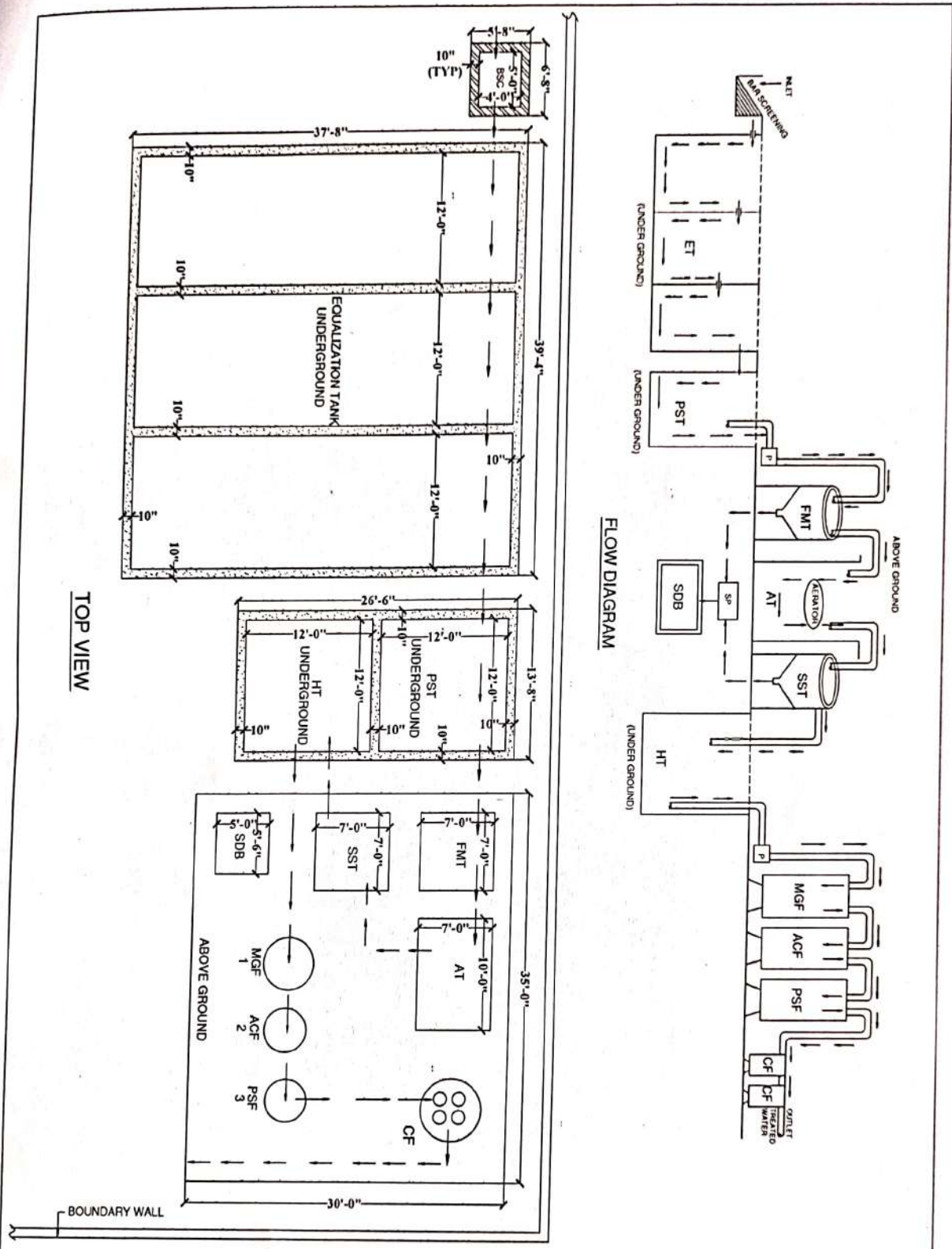
IGSTN NO- 17AAGCA9080R1ZW

SL NO.	PRODUCT	QUANTITY	RATE	TOTAL (RS)
1	STP 200 KLD CAPACITY	1 UNIT	9,11,000/-	9,11,000.00
TOTAL				9,11,000.00
ADD IGST @18%				1,63,980.00
Rupees: Ten Lac Seventy Four Thousand Nine Hundred Eighty Only.				
GRAND TOTAL				10,74,980.00

**BANKING DETAILS:-**  
 BANK - INDUSIND BANK  
 IFSC CODE - INDB0000304  
 A/C NO. - 257003583839

FOR THE SUN  
  
 HATEM MUNSHI LANE  
 THE SUN  
 AUTHORIZED SIGNATURE

(of selling dealer or his authorised employee)



TOP VIEW

FLOW DIAGRAM

**ABBREVIATION**  
 BSC-BAR SCREENING CHAMBER  
 ET-EQUALIZATION TANK  
 PST-PRIMARY SETTLING TANK  
 HT-HOLDING TANK  
 AT-AERATION TANK  
 SST-SECONDARY SETTLING TANK  
 FMT-FLASH MIXING TANK  
 SDB-SLUDGE DRYING BED  
 MGF-MULTI GRADE FILTER  
 ACF-ACTIVATED CARBON FILTER  
 PSF-PRESSURE SAND FILTER  
 CF-CARTRIDGE FILTER  
 P-PUMP  
 SP-SLUDGE PUMP

**SCHEMATIC DRAWING FOR 200KLD ETP**

**THESUN**  
 17, HATEM MUNSHI LANE,  
 KOLKATA-700035  
 e-mail:- thesun022021@gmail.com,  
 office:- 8240080402.

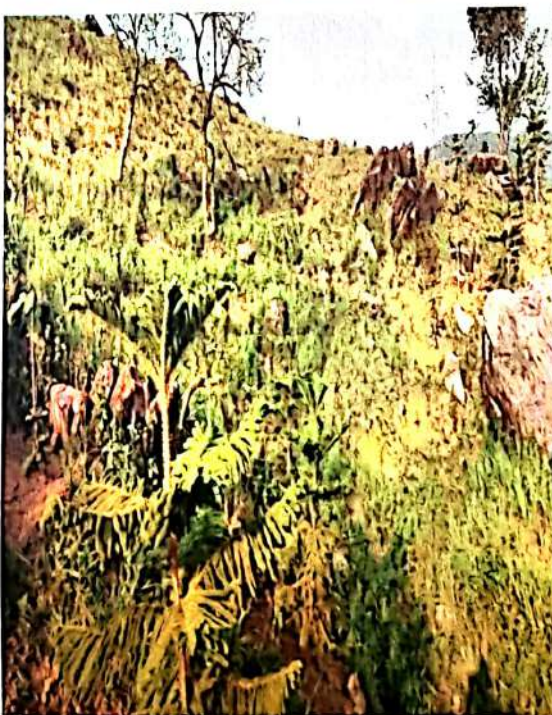
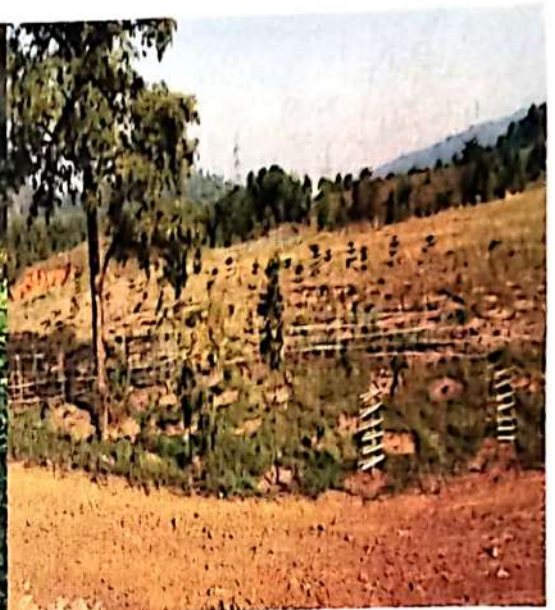
**ETP/STP Civil Work Measurement**

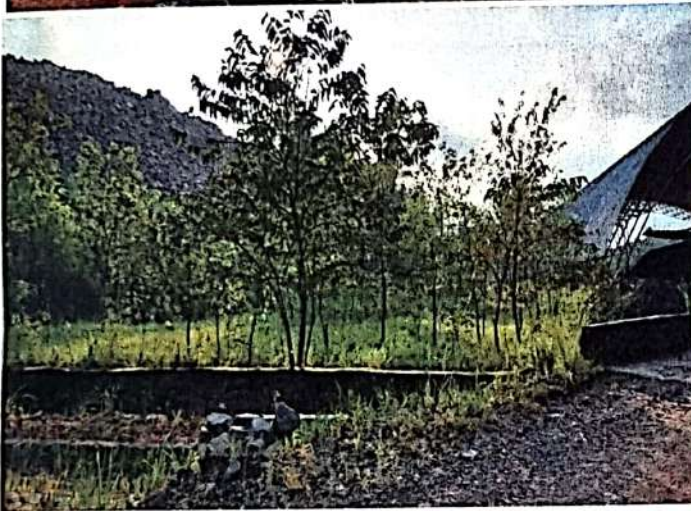
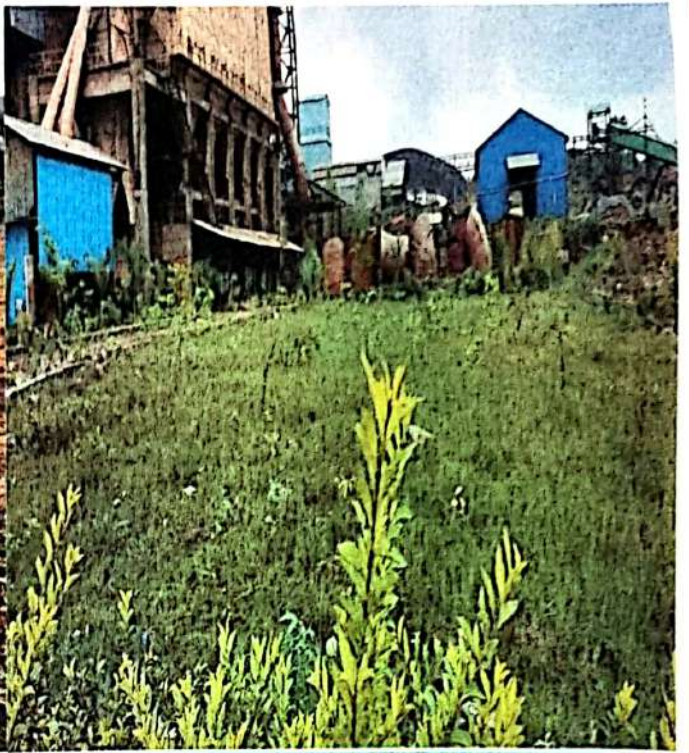
Capacity of ETP/STP	BSC (A) X (B) X (C) (In to In) (D = 10 inch) (E = 10 inch)	ET (A1) X (B1) X (C1) (In to In) B1 = (B1a + B1b + B1c) (D1 = 10 inch) (E1 = 10 inch)	PST (A2) X (B2) X (C2) (In to In) (D2 = 10 inch) (E2 = 10 inch)	HT (A3) X (B3) X (C3) (In to In) (D3 = 10 inch) (E3 = 10 inch)	SDB (A4) X (B4) X (C4) (In to In) (D4 = 10 inch) (E4 = 10 inch)	AT (A5) X (B5) X (C5) (In to In) (D5 = 10 inch) (E5 = 10 inch)	Platform (A6) X (B6)	Total Area (A7) X (B7)
25 KLD	2ft X 2ft X 2ft	14ft X 0.4ft (5+5+4) X 6ft = 1,176 cuft = 33 KL	6ft X 5ft X 6ft = 180 cuft = 5 KL	6ft X 5ft X 6ft = 180 cuft = 5 KL	5ft X 4ft X 4ft = 80 cuft = 2.2 KL	6ft X 6ft X 6ft (+2ft) = 216 cuft = 6 KL	15ft X 15ft	51ft X 16ft = 816 sqft
50 KLD	3ft X 3ft X 3ft	20ft X 18ft (6+6+6) X 6ft = 2,160 cuft = 61 KL	7ft X 6ft X 6ft = 252 cuft = 7 KL	7ft X 6ft X 6ft = 252 cuft = 7 KL	5ft X 5ft X 4ft = 100 cuft = 2.8 KL	7ft X 6ft X 6ft (+2ft) = 252 cuft = 7 KL	21ft X 21ft	62ft X 22ft = 1,364 sqft
75 KLD	3ft X 3ft X 3ft	23ft X 22ft (8+7+7) X 6ft = 3,036 cuft = 85.9 KL	8ft X 8ft X 6ft = 384 cuft = 10.8 KL	8ft X 8ft X 6ft = 384 cuft = 10.8 KL	6ft X 5ft X 4ft = 120 cuft = 3.3 KL	8ft X 8ft X 6ft (+2ft) = 384 cuft = 10.8 KL	22ft X 22ft	71ft X 25ft = 1,775 sqft
100 KLD	4ft X 3ft X 3ft	27ft X 27ft (9+9+9) X 6ft = 4,374 cuft = 123.7 KL	10ft X 9ft X 6ft = 540 cuft = 15 KL	10ft X 9ft X 6ft = 540 cuft = 15 KL	6ft X 6ft X 4.5ft = 162 cuft = 4.5 KL	10ft X 9ft X 6ft (+3ft) = 540 cuft = 15 KL	28ft X 25ft	84ft X 30ft = 2,520 sqft
150 KLD	4ft X 4ft X 4ft	32ft X 30ft (10+10+10) X 6ft = 5,760 cuft = 163 KL	12ft X 10ft X 6ft = 720 cuft = 20 KL	12ft X 10ft X 6ft = 720 cuft = 20 KL	8ft X 6ft X 4.5ft = 216 cuft = 6 KL	12ft X 10ft X 6ft (+3ft) = 720 cuft = 20 KL	28ft X 28ft	90ft X 34ft = 3,060 sqft
200 KLD	5ft X 4ft X 4ft	36ft X 36ft (12+12+12) X 6ft = 7,776 cuft = 220 KL	12ft X 12ft X 6ft = 864 cuft = 24.45 KL	12ft X 12ft X 6ft = 864 cuft = 24.45 KL	10ft X 6ft X 4.5ft = 270 cuft = 7.6 KL	12ft X 12ft X 6ft (+3ft) = 864 cuft = 24.45 KL	35ft X 30ft	107ft X 38ft = 4,066 sqft

1. BSC	BAR SCREENING CHEMBER (Underground)	2. HT	HOLDING TANK (Underground)
3. ET	EQUALISATION TANK (Underground)	4. SDB	SLUDGE DRYING BED (Above the Ground)
5. PST	PRIMARY SETTLING TANK (Underground)	6. AT	AERATION TANK (Above the Ground)

**Greenbelt Development Photographs and  
details**

## Photographs of Green Belt Development







## Green Belt Development Details

SN.	Period	Area covered (ha)	Type	Number of Plant Planted	Species of Plant Planted
I	December, 2011 to September, 2023	Approx 12.97 ha	Trees	70,458	Amla, 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, Kardoi, Mehgoni, Kamini Kamchan, Kanchan, Kardoi, 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, Erika Pam, Thuja, Amora, Jamuk, Holok, Semulu, Tejpat, Khakan, Hollong, Sonaru, Teteli, Boga Jam, Banyan , Sal, Mix plants, Teak Papaya, Valencia, Black berry, Vomeloo, Coconut, Plum, Jalpai, Bell, Mangos teen , Jackfruit, Emly, etc.
			Ornamental Plants	12,018	Bottle Plam, Golden Ficus, Black Ficus, Masunda, Eraka Plam, Dracaena aubryana, Dracaena fragrans 'White Surprise', Dracaena goldieana, Dracaena reflexa 'Song of India', Hibiscus rosa-sinensis, Acalypha wilkesiana, Agave, Allamanda, Alpinia, Calliandra, Clerodendrum, Duranta, Hamelia patens, Heliconia, Gardenia, Lagerstroemia indica , Iresine, Plumeria rubra , Schefflera, Date plam, etc.
			Seasonal Flower	13,970	Aster, Candytuft, Carnation, Cineraria, Larkspur, Lupin, Nasturtium, Pansy, Petunia, Phlox, Dianthus, Poppy, Portulaca, Dahlia, Celosia, Calendula, Salvia, Zinnia liliput, Marigold, Bellis, Verbena, Ranunculus flower, Chrysanthemum, Holyhock, Demorfortica, Gladius, Gazania, Sweet sultan, Zerbera, Ipomoea, Vinca, Helichrysum (Ice plant), Ageratum, Alyssum snow, Zinnia, Cosmos, Balsam, Celosia, Galardia, Morning glory, Calendula, Rose General/Chinese, Rose, Lilim, Begonia, Sunflower, etc.
			Grass sqm.	1,500	Carpet Grass & Local Grass, Bamboo etc.
<b>Total</b>		<b>Approx 12.97 ha</b>	Tree	70,458	
			Ornamental Plants	12,018	
			Seasonal Flower	13,970	
			Grass sqm.	1,500	

**Application copy of State Forest  
Department**

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Amrit Cement Limited, Meghalaya



O/C

#HEALTHY  
CEMENT  
FOR HEALTHY  
HOMES

Date : 18.04.2023

To,

The Divisional Forest Officer,  
Jaintia Hills Territorial Division,  
Jowai, Meghalaya.

Subject : Request to issue certificate regarding distance surrounding reserve forest of Amrit Cement Limited factory.

Dear Sir,

This is in reference to the subject mentioned above we would like to state that as per the requirement of Ministry of Environment and Forests we required the distance certificate of surrounding Reserve forests of Amrit Cement Limited Factory, located at Village Umlaper, Elaka Rymbai, Dist. East Jaintia Hills, Meghalaya.

Therefore, we request before you to issue the distance certificate of surrounding reserve forest of Amrit Cement Limited Factory.

Thanking You.

Yours Faithfully,

For Amrit Cement Limited  
For Amrit Cement Limited

Authorized Signatory  
Authorized Signatory

Received by

20/4/23



Amrit Cement Ltd.

CIN: U26940ML2008PLC008302

Plant: Village Umlaper, Elaka Rymbai, P.O./P.S. Khliehriat, Dist. East Jaintia Hills, Meghalaya 793 200 | Ph: + 91 364 230 7077 | email: info@amrit.co.in  
Registered Office: Opposite Horse Shoe Building, Lower Lachumiere, Shillong 793 001, Meghalaya | Ph: + 91 354 250 3192 | email: info@amrit.co.in

**Testing Reports**

## AMRIT CEMENT LIMITED.

Village: Umlaper, Elaka: Rymbai, Khliehriat, East Jaintia Hills, Meghalaya -  
793200

### AVERAGE RESULTS OF AMBIENT NOISE LEVEL MEASUREMENT

#### NOISE LEVEL (DAY HOURS) (STANDARD:75 dB)

S.No.	Stations	Unit	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG
1	Near Guest House	dB	50.6	48.3	49.8	49.3	48.6	47.4	47.4	50.6	49.0
2	Near Primary Crusher	dB	65.8	64.7	69.6	67.9	69.7	68.1	64.7	69.7	67.6
3	Near Main Gate	dB	69.3	68.3	68.4	69.4	68.3	69.3	68.3	69.4	68.8

#### NOISE LEVEL (NIGHT HOURS) (STANDARD:70 dB)

S.No.	Stations	Unit	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG
1	Near Guest House	dB	39.8	38.45	38.7	40.3	41.4	37.9	37.9	41.4	39.4
2	Near Primary Crusher	dB	63.7	61.5	62.4	64.7	63.6	64.6	61.5	64.7	63.4
3	Near Main Gate	dB	65.9	63.6	64.9	65.7	65.2	65.1	63.6	65.9	65.1

Note: All values are in dB(A)

## AMRIT CEMENT LIMITED.

Village: Umlaper, Elaka: Rymbaj, Khliehriat, East Jaintia Hills, Meghalaya - 793200

### AVERAGE RESULT OF AMBIENT AIR QUALITY MONITORING

PARTICULATE MATTER (PM 10) (Limit: 100 µg/m <sup>3</sup> ) (24 Hrs Average)												
Code	Stations	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG		
AAQ - 1	Near Guest House	44.5	46.5	29.7	49.4	38.4	41.6	29.7	49.4	41.7		
AAQ - 2	MRSS 1 Near DM Plant	51.7	53.5	39.4	55.6	43.8	44.2	39.4	55.6	48.0		
AAQ - 3	MRSS 2 Near Primary Crusher	53.8	54.9	42.7	53.1	41.7	48.3	41.7	54.9	49.1		
AAQ - 4	Near Main Gate	57.4	56.2	44.6	57.3	45.9	51.7	44.5	57.4	52.2		

\*Values are in µg/m<sup>3</sup>

### PARTICULATE MATTER (PM 2.5) (Limit: 60 µg/m<sup>3</sup>) (24 Hrs Average)

Code	Stations	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG		
AAQ - 1	Near Guest House	26.7	27.8	19.8	29.3	21.3	21.3	19.8	29.3	24.4		
AAQ - 2	MRSS 1 Near DM Plant	35.4	36.4	21.6	38.7	32.6	24.8	21.6	38.7	31.6		
AAQ - 3	MRSS 2 Near Primary Crusher	35.9	37.1	23.8	36.4	33.9	29.7	23.8	37.1	32.8		
AAQ - 4	Near Main Gate	37.3	38.9	26.3	39.8	35.7	31.2	26.3	39.8	34.9		

\*Values are in µg/m<sup>3</sup>

### SULPHUR DIOXIDE (SO<sub>2</sub>) (Limit: 80 µg/m<sup>3</sup>) (24 Hrs Average)

Code	Stations	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG		
AAQ - 1	Near Guest House	7.3	7.1	6.3	7.3	6.8	6.9	6.3	7.3	7.0		
AAQ - 2	MRSS 1 Near DM Plant	8.3	8.5	6.8	8.6	7.1	7.2	6.8	8.6	7.8		
AAQ - 3	MRSS 2 Near Primary Crusher	7.9	7.6	7.1	7.4	6.9	7.5	6.9	7.9	7.4		
AAQ - 4	Near Main Gate	7.6	7.4	6.6	7.1	7.3	6.9	6.6	7.6	7.2		

\*Values are in µg/m<sup>3</sup>

### OXIDES OF NITROGEN (NO<sub>2</sub>) (Limit: 80 µg/m<sup>3</sup>) (24 Hrs Average)

Code	Stations	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG		
AAQ - 1	Near Guest House	8.1	8.3	7.3	8.5	7.3	7.9	7.3	8.5	7.9		
AAQ - 2	MRSS 1 Near DM Plant	8.9	9.2	7.5	9.3	7.8	8.2	7.5	9.3	8.5		
AAQ - 3	MRSS 2 Near Primary Crusher	6.6	6.9	7.7	6.8	7.2	8.4	6.6	8.4	7.3		
AAQ - 4	Near Main Gate	8.2	8.6	7.2	8.2	7.5	7.6	7.2	8.6	7.9		

\*Values are in µg/m<sup>3</sup>

**AMRIT CEMENT LIMITED.**

Village: Umlaper, Elaka: Rymbai, Khliehriat, East Jaintia Hills, Meghalaya - 793200

**AVERAGE RESULT OF STACK AIR QUALITY MOINTORING**

**2023-24**

**PARTICULATE MATTER (PM)**

Code	Stations	Standards	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG
Stack -1	Cement Mill	30	26.0	24.0	28.0	22.0	21.0	25.0	21.0	28.0	24.3
Stack -2	Coal Mill	30	22.0	19.0	23.0	21.0	23.0	21.0	19.0	23.0	21.5
Stack -3	Cooler ESP	30	23.0	25.0	24.0	27.0	25.0	27.0	23.0	27.0	25.2
Stack -4	Primary Crusher	30	14.0	12.0	14.0	13.0	15.0	12.0	12.0	15.0	13.3
Stack -5	CPP	50	43.0	41.0	43.0	43.0	46.0	41.0	41.0	46.0	42.8
Stack -6	RABH	30	24.0	20.0	19.0	22.0	24.0	22.0	19.0	24.0	21.8

\*Values are in mg/Nm<sup>3</sup>

**Sulphur Dioxide (SO<sub>2</sub>)**

Code	Stations	Standards	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG
Stack -1	Cement Mill	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Stack -2	Coal Mill	1000	223	218	259	223	212	266.0	212.0	266.0	233.5
Stack -3	Cooler ESP	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Stack -4	Primary Crusher	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Stack -5	CPP	600	456	462	478	471	483	465.0	456.0	483.0	469.2
Stack -6	RABH	1000	626	631	613	639	653	622.0	613.0	653.0	630.7

\*Values are in mg/Nm<sup>3</sup>

**Oxides of Nitrogen (NO<sub>x</sub>)**

Code	Stations	Standards	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG
Stack -1	Cement Mill	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Stack -2	Coal Mill	800	106	102	176	115	103	171.0	102.0	176.0	128.8
Stack -3	Cooler ESP	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Stack -4	Primary Crusher	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Stack -5	CPP	300	212	216	219	224	226	214.0	212.0	226.0	218.5
Stack -6	RABH	800	318	321	318	334	341	314.0	314.0	341.0	324.3

\*Values are in mg/Nm<sup>3</sup>

**Mercury (Hg)**

Code	Stations	Standards	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG
Stack -1	Cement Mill	-	-	-	-	-	-	-	0.0	-	-
Stack -2	Coal Mill	-	-	-	-	-	-	-	-	-	-
Stack -3	Cooler ESP	-	-	-	-	-	-	-	-	-	-
Stack -4	Primary Crusher	-	-	-	-	-	-	-	-	-	-
Stack -5	CPP	0.03	-	-	0.086	-	-	0.081	-	-	-
Stack -6	RABH	-	-	-	-	-	-	-	-	-	-

\*Values are in mg/Nm<sup>3</sup>

**AMRIT CEMENT LIMITED.**

Village: Umlaper, Elaka: Rymbai, Khliehriat, East Jaintia Hills, Meghalaya - 793200

**AVERAGE RESULT OF FUGITIVE EMISSION AIR QUALITY MOINTORING** **2023-24**

**PROCESS FUGITIVE EMISSION TEST RESULTS**

SL NO	Stations	Standard	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	MIN	MAX	AVG
1	Coal Storage Section	2000	992	983	802	988	975	819	802	992	926.5
2	Lime Stone Storage Section	5000	2248	2236	2016	2243	2132	2026	2016	2248	2150.2

\*Values are in µg/m3



Report No.: ENV/ACIL/23-24/AA-04/01  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m <sup>3</sup> )	PM 10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
	LIMIT(S) →	---	60	100	80	80
01	Near Guest House	23.04.2023	26.7	44.5	7.3	8.1
02	MRSS 1 Near DM Plant	23.04.2023	35.4	51.7	8.3	8.9
03	MRSS 2 Near Primary Crusher	24.04.2023	35.9	53.8	7.9	6.6
04	Near Main Gate	24.04.2023	37.3	57.4	7.6	8.2

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/FE-04/01  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbal, Meghalaya

**PROCESS FUGITIVE EMISSION TEST RESULTS**

Sl. No.	Locations	Date of Sampling	Results for SPM ( $\mu\text{g}/\text{m}^3$ )	Limits ( $\mu\text{g}/\text{m}^3$ )
01	Coal Storage Section	23.04.2023	992	2000
02	Lime Stone Storage Section	24.04.2023	2248	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-04/02  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbal, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/2023/SE-04/02		
02	Date of Sampling	23.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No. 1 B. F.		
06	Flue Gas Temperature (°C)	52		
07	Exit Velocity of Gas (m/sec)	13.1		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	22	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	223	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	106	mg/Nm <sup>3</sup>	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-04/05  
 Date : 09/05/2023

Order No.: 6700023095/HO  
 Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
 Village: Umlaper, Elaka Rymbal, Meghalaya

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	ACIL/2023/SE-04/05		
02	Date of Sampling	25.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
06	Flue Gas Temperature (°C)	221		
07	Exit Velocity of Gas (m/sec)	14.4		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	23	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	BDL*	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	BDL*	mg/Nm <sup>3</sup>	800

\*BDL: Below Detection Level

Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-04/06  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/2023/SE-04/06		
02	Date of Sampling	25.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
06	Flue Gas Temperature (°C)	28		
07	Exit Velocity of Gas (m/sec)	4.1		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	14	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	BDL*	mg/Nm <sup>3</sup>	700
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	BDL*	mg/Nm <sup>3</sup>	600

\*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-04/04  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/2023/SE-04/04		
02	Date of Sampling	24.04.2023		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	CPP		
06	Flue Gas Temperature (°C)	102		
07	Exit Velocity of Gas (m/sec)	6.7		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	43	mg/Nm <sup>3</sup>	50
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	456	mg/Nm <sup>3</sup>	600
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	212	mg/Nm <sup>3</sup>	300



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-04/03  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/2023/SE-04/03		
02	Date of Sampling	23.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
06	Flue Gas Temperature (°C)	175		
07	Exit Velocity of Gas (m/sec)	21.1		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	24	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	626	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	318	mg/Nm <sup>3</sup>	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/N-04/01  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbal, Meghalaya

### NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Near Guest House	23.04.2023	50.6	55	39.8	45
2	Near Primary Crusher	23.04.2023	65.8	75	63.7	70
3	Near Main Gate	24.04.2023	69.3	75	65.9	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/DW-04/01  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : ACIL/2023/DW-3004/01  
Collected On : 30-04-2023

Sample Source : CCR  
Received On : 02-05-2023

Sample Type : Drinking Water  
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	1	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.16	1	5
5.	pH	6.92	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	84	500	2000
7.	Aluminium (as Al), mg/l, Max.	<0.001	0.03	0.2
8.	Boron (as B), mg/l, Max.	<0.001	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	18	75	200
10.	Chloride (as Cl), mg/l, Max	5.1	250	1000
11.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
12.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
14.	Iron (as Fe), mg/l, Max	0.021	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	2	30	100
16.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
17.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
18.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	0.8	45	No Relaxation
19.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	<1.0	200	400
20.	Phenolic Compunds (as C <sub>6</sub> H <sub>5</sub> OH), mg/l, Max.	<0.001	0.001	0.002
				--Continued--

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/DW-04/01  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

## DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: ACIL/2023/DW-3004/01  
Collected On : 30-04-2023

Sample Source : CCR  
Received On : 02-05-2023

Sample Type : Drinking Water  
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* In the Absence of Alternate Source
21.	Total Alkalinity (as CaCO <sub>3</sub> ), mg/l, Max	51	200	600
22.	Total Hardness, (as CaCO <sub>3</sub> ), mg/l, Max	33	200	600
23.	Cadmium (as Cd), mg/l, Max.	<0.001	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	<0.001	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	<0.001	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	<0.001	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	<0.001	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	<0.001	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
31.	Molybdenum, (as Mo), mg/l, Max	<0.001	0.07	No Relaxation
32.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
33.	E. Coli / 100 ml	Absent	Absent	Absent
				-End of Report-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

**Remarks:** Drinking water from the above source is fit for drinking.



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/WW-04/01  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

## WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : ACIL/2023/WW-3004/01  
Sample Type/Source : Waste Water (Treated)/ETP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 30.04.2023  
Sample Received On : 02.05.2023  
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.69	5.5 - 9.0
2.	Temperature	°C	24.6	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	37	100
4.	Biochemical Oxygen Demand	mg/l	23	30
5.	Chemical Oxygen Demand	mg/l	89	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	3.3	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	12.2	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/WW-04/02  
Date : 09/05/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

## WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : ACIL/2023/WW-3004/02  
Sample Type/Source : Waste Water (Treated)/STP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 30.04.2023  
Sample Received On : 02.05.2023  
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.76	5.5 - 9.0
2.	Temperature	°C	25.7	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	33	100
4.	Biochemical Oxygen Demand	mg/l	23	30
5.	Chemical Oxygen Demand	mg/l	86	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	4.3	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	16	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/AA-05/01  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m <sup>3</sup> )	PM 10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
	LIMIT(S) →	---	60	100	80	80
01	Near Guest House	19.05.2023	27.8	46.5	7.1	8.3
02	MRSS 1 Near DM Plant	19.05.2023	36.4	53.5	8.5	9.2
03	MRSS 2 Near Primary Crusher	20.05.2023	37.1	54.9	7.6	6.9
04	Near Main Gate	20.05.2023	38.9	56.2	7.4	8.6

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/FE-05/01  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

**PROCESS FUGITIVE EMISSION TEST RESULTS**

Sl. No.	Locations	Date of Sampling	Results for SPM ( $\mu\text{g}/\text{m}^3$ )	Limits ( $\mu\text{g}/\text{m}^3$ )
01	Coal Storage Section	20.05.2023	983	2000
02	Lime Stone Storage Section	20.05.2023	2236	5000

Analysis Protocol: IS 5182



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Report No.: ENV/ACIL/23-24/SE-05/01  
 Date : 10/06/2023

Order No.: 6700023095/HO  
 Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
 Village: Umlaper, Elaka Rymbai, Meghalaya

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	ACIL/2023/SE-05/01		
02	Date of Sampling	19.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
06	Flue Gas Temperature (°C)	73		
07	Exit Velocity of Gas (m/sec)	14.2		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	BDL*	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	BDL*	mg/Nm <sup>3</sup>	800

\*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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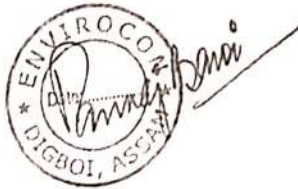
Report No.: ENV/ACIL/23-24/SE-05/02  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/2023/SE-05/02		
02	Date of Sampling	19.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No. 1 B. F.		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	13.5		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	19	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	218	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	102	mg/Nm <sup>3</sup>	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-05/02  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	ACIL/2023/SE-05/02		
02	Date of Sampling	19.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No. 1 B. F.		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	13.5		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	19	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	218	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	102	mg/Nm <sup>3</sup>	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-05/05  
Date : 10/06/2023

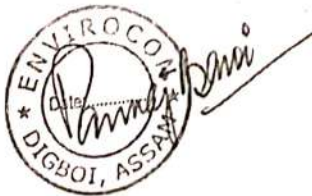
Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/2023/SE-05/05		
02	Date of Sampling	20.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
06	Flue Gas Temperature (°C)	225		
07	Exit Velocity of Gas (m/sec)	15.3		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	25	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	BDL*	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	BDL*	mg/Nm <sup>3</sup>	800

\*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-05/06  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/2023/SE-05/06		
02	Date of Sampling	20.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
06	Flue Gas Temperature (°C)	27		
07	Exit Velocity of Gas (m/sec)	3.8		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	12	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	BDL*	mg/Nm <sup>3</sup>	700
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	BDL*	mg/Nm <sup>3</sup>	600

\*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-05/04  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/2023/SE-05/04		
02	Date of Sampling	20.05.2023		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	CPP		
06	Flue Gas Temperature (°C)	101		
07	Exit Velocity of Gas (m/sec)	6.4		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	41	mg/Nm <sup>3</sup>	50
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	462	mg/Nm <sup>3</sup>	600
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	216	mg/Nm <sup>3</sup>	300



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/SE-05/03  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

## STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/2023/SE-05/03		
02	Date of Sampling	19.05.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
06	Flue Gas Temperature (°C)	178		
07	Exit Velocity of Gas (m/sec)	21.6		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	20	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	631	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	321	mg/Nm <sup>3</sup>	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/N-05/01  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Near Guest House	19.05.2023	48.3	55	38.45	45
2	Near Primary Crusher	19.05.2023	64.7	75	61.5	70
3	Near Main Gate	20.05.2023	68.3	75	63.6	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/DW-05/01  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

## DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : ACIL/2023/DW-2805/01  
Collected On : 28-05-2023

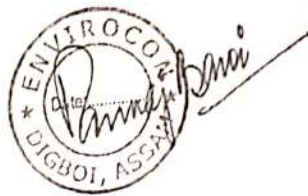
Sample Source : CCR  
Received On : 30-05-2023

Sample Type : Drinking Water  
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	2	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.15	1	5
5.	pH	6.95	6.5 - 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	82	500	2000
7.	Aluminium (as Al), mg/l, Max.	<0.001	0.03	0.2
8.	Boron (as B), mg/l, Max.	<0.001	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	16	75	200
10.	Chloride (as Cl), mg/l, Max	3.8	250	1000
11.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
12.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
14.	Iron (as Fe), mg/l, Max	0.014	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	2	30	100
16.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
17.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
18.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	<0.1	45	No Relaxation
19.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	4	200	400
20.	Phenolic Compunds (as C <sub>6</sub> H <sub>5</sub> OH), mg/l, Max.	<0.001	0.001	0.002
				--Continued--

Analysis Protocol: IS 3025

\*Limits as per IS 10500:2012



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.

Recognised By  
Pollution Control Board, Assam

P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171  
Ph: 03751-264414, 9435008657, 8876028672  
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified  
ISO 45001:2018 Certified

Report No.: ENV/ACIL/23-24/DW-05/01  
Date : 10/06/2023

Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

### DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : ACIL/2023/DW-2805/01  
Collected On : 28-05-2023

Sample Source : CCR  
Received On : 30-05-2023

Sample Type : Drinking Water  
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* In the Absence of Alternate Source
21.	Total Alkalinity(as CaCO <sub>3</sub> ) , mg/l, Max	42	200	600
22.	Total Hardness, (as CaCO <sub>3</sub> ), mg/l, Max	9.6	200	600
23.	Cadmium (as Cd), mg/l, Max.	<0.001	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	<0.001	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	<0.001	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	<0.001	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	<0.001	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	<0.001	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
31.	Molybdenum, (as Mo), mg/l, Max	<0.001	0.07	No Relaxation
32.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
33.	E. Coli / 100 ml	Absent	Absent	Absent
				-End of Report-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

**Remarks:** Drinking water from the above source is fit for drinking.



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/23-24/WW-05/01  
Date : 10/06/2023

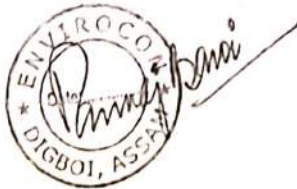
Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

## WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : ACIL/2023/WW-2805/01  
Sample Type/Source : Waste Water (Treated)/ETP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 28.05.2023  
Sample Received On : 30.05.2023  
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.82	5.5 - 9.0
2.	Temperature	°C	25.8	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	35	100
4.	Biochemical Oxygen Demand	mg/l	24	30
5.	Chemical Oxygen Demand	mg/l	92	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	3.5	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	12.6	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

**NOTE:**

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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, I.O.C.L (AOD) 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.

Report No.: ENV/ACIL/23-24/WW-05/02  
Date : 10/06/2023

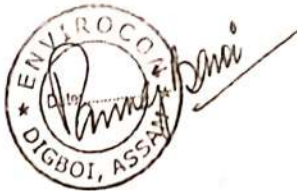
Order No.: 6700023095/HO  
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**  
Village: Umlaper, Elaka Rymbai, Meghalaya

## WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : ACIL/2023/WW-2805/02  
Sample Type/Source : Waste Water (Treated)/STP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 28.05.2023  
Sample Received On : 30.05.2023  
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	7.26	5.5 - 9.0
2.	Temperature	°C	25.9	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	38	100
4.	Biochemical Oxygen Demand	mg/l	24	30
5.	Chemical Oxygen Demand	mg/l	89	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	4.6	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	19	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

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