



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



Ref: MCL/ENV/MoEF&CC/Compliance LS-II/2023-24/12

Date:-26/06/2023

To,

The Addl. Director General (Central),
Ministry of Environment Forest & Climate Change,
North Eastern Regional Office, Shillong,
Meghalaya.

Sub: - Submission of half yearly compliance report for limestone mines for an area of 31.05 Ha for the period of **October'2022 to March'2023**.

Dear Sir,

We are hereby furnishing the half yearly compliance report (hard copy and soft copy) for the period from **October'2022 to March'2023** on Environmental Stipulations for limestone mining for an area of 31.05 Ha, at South Khliehji at Village- Thangskai, East Jaintia Hills District, Meghalaya, vide your Environment Clearance letter no SEIAA/ (PR-19/2012) PT/PR-05/2015/444 dated: 9th Jan 2017.

This is for your kind information and perusal. You are requested to kindly acknowledge the receipt of the same.

Thanking You,

Yours Faithfully,

For MEGHALAYA CEMENTS LIMITED


R.K.Pareek
(Sr. President)

Encl: As stated above.

Copy to:

- 1) The Member Secretary, Meghalaya State Pollution Control Board, Shillong.
- 2) The Member Secretary, State Environment Impact Assessment Authority, Shillong.



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 2345421/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
Web : www.topcem.in

Kolkata :
BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel. : 033 2334 0666 / 0004
Fax : 033 2334 0505
E-mail : kolkata@topcem.in

Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : 03655 278324 / 363 / 364
Fax : 03655 278327
E-mail : meghalaya@topcem.in

HELPLINE NO : 18001233666



Half yearly Compliance Report (for the period October'2022 to March'2023) on Environmental Stipulations for limestone mining for an area of 31.05 Ha, at South Khliehjeri, Thangskai Village, Khliehriat, East Jaintia Hills by M/s – Meghalaya Cements Ltd.,(MCL) – Environmental Clearance Letter No. SEIAA/ (PR-19/2012) PT/PR-05/2015/444; Dated 9th Jan 2017.

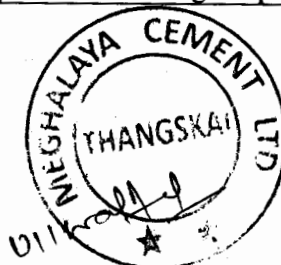
Sl. No. as per letter dated 09.01.2017 of State Environment Impact Assessment Authority.	Compliance Status
A. SPECIFIC CONDITIONS	
(i) The Project proponent (PP) shall obtain the requisite Wildlife Clearance from the National Board for Wildlife before operationlising the project.	Complied With The project area does not fall within the area of Eco Sensitive zone and the Project Proponent (PP) has obtained the requisite Wildlife Clearance from Divisional Forest Officer (Wildlife), Jaintia Hills, Wildlife Division, Jowai, (through office of APCC govt. of Meghalaya, Letter No. FWC/G/278/pt/928, Dated 6 th June 2018). Copy of the Wildlife Clearance is attached as an (Annexure-I)
(ii) Mining activities shall be restricted to the 31.05Ha. Which is identified as the 'non – forest area' and shall not be extended to any other area.	Agreed to Comply. Mining activities is restricted to the 31.05Ha, which is identified as the 'non – forest area' and will not be extended to any other area at any condition. The bounded co-ordinates for the 31.05 Ha South Khliehjeri Limestone Mining is as below:- Latitude:- N 25,11,50.0 to N 25,12,21.8 Longitude:- E 92,23,20.8 to 92,23,44.1
(iii) The revised mining plan is valid for 5 years only. After its expiry, The PP shall submit another mining plan duly approved by the authorized agency.	Agreed to Comply. Review of Mining Plan with Progressive Mine Closure Plan has been submitted under Rule 17(2) of MCR, 2016 to the authorized agency (Indian Bureau of Mines) for South Khliehjeri Limestone Mine (Area-31.05 Ha) vide letter no IBM/GHY/MEG/EJNH/MP-81, dated 07/09/2021. The Lease period of Mines is 10/01/2017 to 09/01/2067 and Period of Proposal is 2021-22 to 2025-26. After its expiry, the revises mining Plan will be submitted to the Indian Bureau of Mines.
(iv) The PP shall obtain Consent to Operate(CTO) from the State Pollution Control Board, Meghalaya, within 2 (two) months from the date of issue of the EC and copy of the same shall be forwarded to the SEIAA, Meghalaya and the MoEF&CC, Regional Office, Shillong. The PP shall effectively implement all the conditions stipulated therein in the CTO.	Complied with. The PP has obtained Consent to Operate (CTO) from the State Pollution Control Board, Meghalaya, vide CTO No. MPCB/CON-191-2016/Vol-I/2023-2024/2 dated 09 th June'2023 & it is valid upto 28 th February 2024 under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Ac, 1981, as amended (to be referred as Water Act & Air Act respectively). The Consent to Operate granted in favour of the Project vide TO Order no. MPCB/CON-191-2016/2016-2017/15, dated



		24.02.2018 for operating a 31.05 Ha Limestone Mines located at Thangskai, East Jaintia Hills District. The PP has effectively maintaining the General and Specific conditions and submitted to MsPCB. Consent to Operate is valid for 1 (one) year i.e. 28.02.2024, Copy of the CTO is attached as an annexure-II .
(v)	The Project Proponent should ensure that the mining activities shall not disturb the caves existing nearby the mining lease area.	Complied with. We have conducted Scientific study and designing of controlled blasting pattern for carrying out safe and scientific blasting operation to combat environmental pollution such as Air, Noise and Land within permissible limit by Central Institute of Mining and Fuel Research (CIMFR) Jharkhand. As per report no ground vibration in term of peak particle velocity measured by using seismographs beyond a distance of 500 meters from the mine lease boundary of South Khliehjar limestone mines. And we are following controlled blasting as per guidelines provided by CIMFR. Detailed report for the Scientific study has been submitted to IRO-Shillong vide letter no. MCL/Env/MoEF&CC/2022-23/39, dated 11 th Jan 2023.
(vi)	The PP shall ensure that a Biodiversity Conservation Plan with focus on conservation of the schedule –I species in the area, is prepared in consultation with the Forests and Environment Department, Meghalaya. The PP shall ensure adequate budgetary provisions and indicate a timeline for the implementation of the plan. The plan shall be submitted to the SEIAA and the NE regional office of the MoEF & CC, Shillong within a period of 1 year from the date of issue of EC.	Complied with. The company has already doing work on Biodiversity Conservation of Schedule-I species in co-ordination with Environment Department of North Eastern Hill University (NEHU), Shillong since 05 (five) years. The NEHU, officials have already appointed a Project fellow for the Project and they are working at our site on Biodiversity Conservation Plan with focus on conservation of the schedule – I species in the area. The green house already developed and conservation of three flora species namely: Orchidaceae, Cattelya Orchidaceae, Cymbidium Orchidaceae, Gladiolus, Anthurium and Begonia rubrovenia has been initiated. Also Company has approached to Forest and Environment Department for better conservation of Biodiversity. Project report on Biodiversity Inventorization and Conservation through Assisted Regeneration of RET Species has submitted to IRO-Shillong vide letter no.- MCL/ENV/MoEF&CC/ Compliance LS-I/2022-23/33, dated 2nd Dec 2022.
(vii)	The Action Plan as spelt out in the EIA Report and on the issues raised during the Public Hearing dated 17/12/2014 shall be implemented by the PP with adequate budgetary provisions. The PP shall complete all the tasks within 1 (one) year and submit a Report to the SEIAA, Meghalaya, and the	Agreed to Comply. The PP has undertaken and completed all the tasks related to the EIA Report and issues raised during the Public Hearing dated 17/12/2014 accordingly and submitted the detailed report with action plan and compliance status and its implementation to the



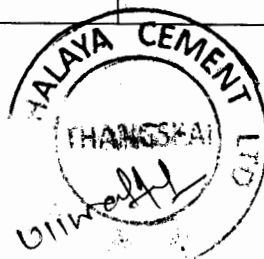
	NE Regional Office, MoEF&CC.	SEIAA, Meghalaya, and the NE Regional Office, MoEF&CC. Detailed budgetary report against the individual action taken is attached here as Annex – III & III-a.
(viii)	Proponent shall be appoints an Occupational Health Specialist for the medical examination of the workers engaged in the project. Occupational Health check-ups shall be undertaken once in six months for workers and necessary remedial / preventive measures shall be taken. The Recommendations of National Institute for ensuring a good occupational environment for mine workers shall be implemented. The prevention measures for burns, material, and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.	<p>Complied with.</p> <p>Proponent has appointed Competent Occupational Health Specialist including Medical Officer, Dentist, Nurse, Compounder, Lab Technician & Dresser for the medical examination of the workers engaged in the project. Occupational Health check-ups schedule is being followed as per the guideline and necessary remedial/ preventive measures are taken. The Recommendations of National Institute for ensuring a good occupational environment for mine workers are implemented.</p> <p>The following equipments has setup in Occupational Health for examination of workers:- ECG Machine, Audiometry, Spirometry (PFT), Cardiac Monitor, Oxygen Cylinder, Suction Machine, Nebulizer machine, Semi auto Analyzer, Micro Scope, Incubator, Centrifuge machine, Haemometer, Accu chek machine, Blood cell counter, Homocytometer etc. Company has 02 (Two) Ambulance in which one is Advanced life support with Cardiac monitor & Defibrillator and another one is only with Oxygen support. The prevention measures for burns, material, and provision of anti-snake venom including all other paramedical safeguards are already implemented to the workers for mining activities. List of Occupational Health check-ups of mines employees working in the South Khliehjar Limestone Mine (31.05 Ha) and details of Occupational health center including Medical staff, Equipments and testing facilities attached as an (Annexure-IV & V)</p>
(ix)	The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Groundwater level and quality shall be submitted to the SEIAA, Meghalaya and the Regional Office of the Ministry.	<p>Agreed to Comply.</p> <p>We have done detailed Hydro geological survey by a CGWS approved third party & as per the report no ground water found in our mining lease area. The utilization of ground water has not being done by the Project Proponent for any activities. As per the Hydro geological survey recommendation Company has established a monitoring well (Borewell & Piezometer) to interface drawn about the depth of ground water level in the mining lease hold area. Detailed Hydro geological Survey report has submitted to IRO-Shillong vide letter no.- MCL/ENV/MoEF&CC/Compliance LS-I/2022-23/ 33, dated 2nd Dec 2022. No ground water level observed during the period of October-2022 to</p>



		March-2023. Whenever the Ground water level will observed, Company will submit the Groundwater level and quality report to IRO-Shillong on six monthly basis.
(x)	The Pollution due to transportation shall be effectively controlled. Vehicles with Meghalaya Pollution Control Board pollution clearance certificate only shall be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Complied with. Pollution due to transportation is being effectively controlled by proper maintenance of haul roads. Installation work for Permanent water sprinklers on Mines haul road has been done and working effectively. PUC certified vehicles are being used for transportation & other activities in mining by the PP. The mineral transportation is carried out through covered trucks only and the overloaded vehicles are not allowed for minerals transportation. Photographs of Permanent water sprinklers and PUC certificates for the vehicle using in mines is attached as an Annexure- VI & VII.
(xi)	The PP shall put in place proper rainwater harvesting measures at the site and shall also undertake conservation measures to augment groundwater resources in the area in consultation with the Central Ground water Board.	Preparation & implementation of Rainwater Harvesting Scheme has been done and plan has submitted to Central Ground Water Board, Guwahati vide Letter No. - MCL/ENV/CGWB/Comm./2022-23/31, dated: 07.11.2022. Thereafter Scientist-D from SUO-Shillong has inspected Rain Water harvesting Scheme at our site on dated 25 th April 2023. She has forwarded inspection report to The Regional Director, CGWB, North-Easter Region, Guwahati and recommended for approval of the said RWHS. After vetting/approval by the Board for efficiency/adequacy, status will be submitted to the Region Office (MoEF). The copy of recommendation letter by Scientist-D is attached as an Annexure-VIII.
(xii)	The Project Proponent shall adopt Best mining Practices for the giving mining conditions. In the mining area adequate number of check dams, retaining walls / structures, garland drains and settling ponds should be provided to arrest the wash-off with rain water in catchment area.	Complied with. Best mining practices are being adopted by the Project Proponent for the giving mining conditions. Systematic opencast mechanized mining method being implemented to win the limestone minerals which have involved deep hole drilling and blasting, excavator and blasting by slurry explosive. Loading and hauling from the mine face being done mechanically by excavators and tipper combination. The method involves the removal of huge quantities of overburden, dumping, and backfilling of the excavated area. In the mining area adequate number of check dams, retaining walls / structures, garland drains and settling ponds are provided to arrest the wash-off with rain water in catchment area.



(xiii)	Use of effective sprinkler system to suppress fugitive dust on hauls roads and other transport roads shall be ensured, and cleaning of transport vehicles shall not be done outside the project area. Main haulage roads and other roads should be regularly wetted using water tankers fitted with sprinklers. Crusher and material transfer points should invariable be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust.	Being compiled with Mitigation measures to control fugitive dust emission are being done through Mobile Water Tankers filled with sprinklers on hauls roads and other transport road. Main haulage roads and other roads always keep wetted to suppress fugitive dust. Installation of Permanent water sprinklers on Mines haul road has been done and working effectively. Photographs of Permanent Water Sprinklers are attached as an Annexure-VI . Adequate Bag filters and dry fogging system provided at Crushing & material transfer points. Belt conveyors are fully covered with proper shed to avoid air borne dust.																																																							
(xiv)	The project Proponent shall ensure that no natural water course and / or water resources shall be obstructed due to any mining operations. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of water scarcity in the area, the Project Proponent shall not use local water for the project and also shall assist in arranging water to the villagers for their use.	Agreed to comply. The project Proponent ensures that no natural water course and / or water resources will be obstructed due to any mining operations. In case of water scarcity in the area, the Project Proponent will not use local water for the project also will arrange water to the villagers for their use.																																																							
(xv)	The PP shall ensure that the lights and sounds at night at the project site do not disturb the villages and the also animals. The PP shall must ensure that the biological clock of the village(r)s is not disturbed; by orienting the floodlights / masks away from the villagers and keeping the noise levels well within the prescribed limits for day light / night hours.	Being compiled with The PP is operating the mine in daylight hours only and maintaining the noise levels within the prescribed limits for day light / night hours. Monitoring report of the Noise Level is as mentioned below:- <table><tr><th rowspan="2">Months</th><th colspan="3">Day Hrs</th><th colspan="3">Night hrs</th></tr><tr><th>Min</th><th>Max</th><th>Avg</th><th>Min</th><th>Max</th><th>Avg</th></tr><tr><td>Oct-2022</td><td>64.3</td><td>74.4</td><td>69.4</td><td>42.3</td><td>47.8</td><td>44.6</td></tr><tr><td>Nov-2022</td><td>64.5</td><td>74.0</td><td>69.2</td><td>42.5</td><td>48.0</td><td>44.9</td></tr><tr><td>Dec-2022</td><td>65.2</td><td>73.7</td><td>69.1</td><td>43.2</td><td>48.7</td><td>45.5</td></tr><tr><td>Jan-2023</td><td>64.0</td><td>74.5</td><td>69.4</td><td>42.0</td><td>47.5</td><td>44.4</td></tr><tr><td>Feb-2023</td><td>64.3</td><td>74.4</td><td>69.4</td><td>42.3</td><td>47.8</td><td>44.6</td></tr><tr><td>Mar-2023</td><td>61.2</td><td>73.7</td><td>68.6</td><td>43.4</td><td>48.9</td><td>45.7</td></tr></table>	Months	Day Hrs			Night hrs			Min	Max	Avg	Min	Max	Avg	Oct-2022	64.3	74.4	69.4	42.3	47.8	44.6	Nov-2022	64.5	74.0	69.2	42.5	48.0	44.9	Dec-2022	65.2	73.7	69.1	43.2	48.7	45.5	Jan-2023	64.0	74.5	69.4	42.0	47.5	44.4	Feb-2023	64.3	74.4	69.4	42.3	47.8	44.6	Mar-2023	61.2	73.7	68.6	43.4	48.9	45.7
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(xvi)	The PP shall not transport the minerals by road through the village, without their consent. A 'bypass' road shall preferable be constructed for the purpose of transportation of the minerals so that the impact of sounds, dust and accidents could be mitigated. The PP shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the project.	Agreed to comply. The entire Mineral is being transported by our own haul road without using any public/village road. A 'bypass' road has been constructed for transportation of material & mineral to avoid the impact of sounds, dust and mitigation of accidents. The PP are not using existing public road network for the project activates.																																																							



(xvii)	Necessary permission as per Acts & Rules shall be obtained from the Competent Authorities for Storage and use of explosives and detonators. The instructions and Rules specified therein shall be strictly adhering to.	Complied with. Necessary permission as per Acts & Rules has already been obtained from the Competent Authorities "Petroleum & Explosives Safety Organization PESO", (Ministry of Commerce & Industries) for Storage and use of explosives and detonators. License for possess for use of Amonium Nitrate from a store house attached to explosive manufacturing unit (ANFO) situated at Survey no.: Umpeh area at East Jaintia Hills district, Meghalaya. Renewal of License no.: A/EC/MG/P3/5(A271) granted in form-3 of Ammonium Nitrate Rules,2012 on Dated 23.03.2022 and valid upto 31.03.2027. The instructions and Rules specified therein are being strictly adhering to by the PP. The copy of License for the same attaches as Annexure-IX .
(xviii)	As per the Companies Act, 2013 and the CSR Rules, 2% of average net profit of last three years shall be made available by the PP for the socio economic development of the neighborhood habitats. This shall be properly planned by the PP with the help of expert institutes and implemented through registered Agency as per the CSR Rules. Compliance report shall be submitted to the SEIAA, Meghalaya, the NE Regional Office of the MoEF & CC, and Shillong on a six monthly basis.	Agreed to comply. 2% of average net profit of last three years is being made available by the PP for the socio economic development of the neighborhood habitats. Compliance report being submitted to the SEIAA, Meghalaya, the NE Regional Office of the MoEF & CC, and Shillong on a six monthly basis. Meghalaya Cements Limited has already engaged socio economic development of the neighborhood habitant. Detailed expenditure of CSR activities attaches as Annexure-X
(xix)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure for approval, with a copy to Mining & Geology Department, Meghalaya and the SEIAA, Meghalaya.	Agreed to comply. Final Mine Closure Plan with Corpus Fund as approved by IBM shall be submitted to MoEF& CC 5 years in advance of final mine closure for approval.

B. GENERAL CONDITIONS

(i)	No change in mining technology and scope of working shall be made without prior approval of the SEIAA, Meghalaya. No deviation shall be made in the calendar plan including excavation, quantum of mineral and waste.	Agreed to comply. Mining is being done as per mining plan approved by Indian Bureau of Mines. There will be no change in technology and scope of work without prior approval of MoEF & CC. The PP has follow the calendar plan including excavation, quantum of mineral and waste as per approved mining plan vide letter no IBM/GHY/MEG/EJNH/MP-81, dated 07/09/2021. The Lease period of Mines is 10/01/2017 to 09/01/2067 and Period of Proposal is 2021-22 to 2025-26.
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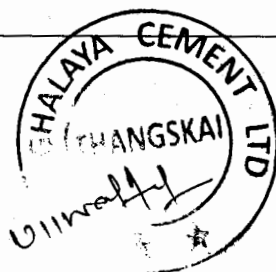
(i)-a	The Project Proponent shall not violate applicable provisions of any Acts, Rules Orders of the Government and judicial orders issued by the Hon'ble Supreme Court/High Courts/NGT, applicable to the project.	Agreed to comply. The Project Proponent is implementing all applicable provisions of any Acts, Rules Orders of the Government and judicial orders issued by the Hon'ble Supreme Court/High Courts/NGT, applicable to the project.																																				
(ii)	Mining shall be carried out as per the provisions outlined in mining plan approved by Indian Bureau of mines (IBM) as well as by abiding to the guidelines of Directorate General Mines Safety (DGMS).	Agreed to comply. Mining is carried out as per the provisions outlined in mining plan approved by Indian Bureau of mines (IBM) vide letter no IBM/GHY/MEG/EJNH/MP-81, dated 07/09/2021 as well as by abiding to the guidelines of Directorate General Mines Safety (DGMS).																																				
(iii)	Sufficient number of Gullies / drainage channels shall be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the NE Regional Office, MoEF & CC, Shillong and Meghalaya State Pollution Control Board (MSPCB) on six monthly basis.	<p>Sufficient numbers of Gullies / drainage channels are provided for better management of water. Regular Monitoring of pH is being done and reports are submitted to the NE Regional Office, MoEF & CC, Shillong and Meghalaya State Pollution Control Board (MSPCB) on six monthly basis. Testing parameters as below:-</p> <table><tr><th>Sl. No.</th><th>Parameters</th><th>Upstream</th><th>Downstream</th></tr><tr><td>1</td><td>pH</td><td>7.23</td><td>7.27</td></tr><tr><td>2</td><td>Dissolved Oxygen (mg/lit)</td><td>12.58</td><td>12.27</td></tr><tr><td>3</td><td>Total Dissolve Solids (mg/Lit)</td><td>160.67</td><td>174.50</td></tr><tr><td>4</td><td>Conductivity (mg/Lit)</td><td>155.17</td><td>161.67</td></tr><tr><td>5</td><td>Total Hardness (mg/Lit)</td><td>230.33</td><td>227.50</td></tr><tr><td>6</td><td>Calcium Hardness (mg/Lit)</td><td>160.33</td><td>160.33</td></tr><tr><td>7</td><td>Magnesium Hardness (mg/Lit)</td><td>70.00</td><td>67.17</td></tr><tr><td>8</td><td>Alkalinity (mg/Lit)</td><td>66.50</td><td>74.00</td></tr></table> <p>Annexure-XI</p>	Sl. No.	Parameters	Upstream	Downstream	1	pH	7.23	7.27	2	Dissolved Oxygen (mg/lit)	12.58	12.27	3	Total Dissolve Solids (mg/Lit)	160.67	174.50	4	Conductivity (mg/Lit)	155.17	161.67	5	Total Hardness (mg/Lit)	230.33	227.50	6	Calcium Hardness (mg/Lit)	160.33	160.33	7	Magnesium Hardness (mg/Lit)	70.00	67.17	8	Alkalinity (mg/Lit)	66.50	74.00
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7	Magnesium Hardness (mg/Lit)	70.00	67.17																																			
8	Alkalinity (mg/Lit)	66.50	74.00																																			
(iv)	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient air parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried and record should be maintained.	Complied with. Effective safeguard measures such as regular water sprinkling being done through Permanent water sprinklers & Mobile water tankers on the critical areas such as haul road, loading and unloading point and transfer points. Regular monitoring of PM10 and PM2.5 are being done in critical areas. To control the Fugitive dust emissions from all the sources, PP is taking effective safeguard measures such as regular water sprinkling, development of green belts and fogging at unloading point and transfer points. Details of PM10, PM2.5 & Fugitive dust emissions are mentioned below:-																																				



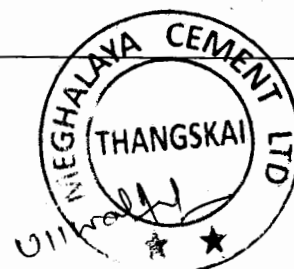
		<table><tr><th>Pollutants</th><th>Location</th><th>Avg. of Last 06 months</th></tr><tr><td rowspan="3">Particulate Matters PM10 (µg/m3)</td><td>A1. North -East (Near Soil Dump)</td><td>34.67</td></tr><tr><td>A2. North - West(Near Haul Road)</td><td>40.47</td></tr><tr><td>A3.Southern side (Near Lease Boundary)</td><td>33.95</td></tr><tr><td rowspan="3">Particulate Matters PM2.5 (µg/m3)</td><td>A1. North -East (Near Soil Dump)</td><td>23.93</td></tr><tr><td>A2. North - West(Near Haul Road)</td><td>24.40</td></tr><tr><td>A3.Southern side (Near Lease Boundary)</td><td>23.03</td></tr><tr><td rowspan="4">Fugitive dust emissions (µg/m3)</td><td>A1. Drilling</td><td>1648.33</td></tr><tr><td>A2. Blasting</td><td>2008.00</td></tr><tr><td>A3. Loading</td><td>1907.50</td></tr><tr><td>A4. Unloading</td><td>1683.00</td></tr></table>	Pollutants	Location	Avg. of Last 06 months	Particulate Matters PM10 (µg/m3)	A1. North -East (Near Soil Dump)	34.67	A2. North - West(Near Haul Road)	40.47	A3.Southern side (Near Lease Boundary)	33.95	Particulate Matters PM2.5 (µg/m3)	A1. North -East (Near Soil Dump)	23.93	A2. North - West(Near Haul Road)	24.40	A3.Southern side (Near Lease Boundary)	23.03	Fugitive dust emissions (µg/m3)	A1. Drilling	1648.33	A2. Blasting	2008.00	A3. Loading	1907.50	A4. Unloading	1683.00
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		Report for the same attached as Annexure-XII																										
(v)	The limestone shall be preferably transported by covered conveyor belts to the cement plants which shall be set up by the PP. The vehicles carrying the mineral shall not be overloaded. Vehicular emissions shall be kept under control and regular monitored.	<p>Being complied with</p> <p>The limestone is being transported by covered belt conveyors and the vehicle carrying the mineral maintained under loaded.</p> <p>All the HEMM (Heavy Earth Moving Machinery) are being serviced as per periodical as well as routine maintenance. The results are remained well within the prescribed limit. Smoke density emission testing analyzed by Pollution Testing Station, Ladthalaboh, Jowai, Meghalaya for each HEMM and has been included in the compliance report as an Annexure-VII</p>																										
(vi)	The top soil, if any, shall temporarily be stored at earmarked site (s) only and shall be used for land reclamation and plantation at the earliest. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site (s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. During closure of the time the over circumstances the PP shall bring top soil from other areas to fill the pit. In the partially filled pit, the maintenance of terraces should be strictly followed to allow soil to stabilize on the terraces. It is preferable that the orchard is raised by the PP on the reclaimed.	<p>Complied with.</p> <p>Top soil is being stored at earmarked site as per the mining plan approved by the Indian Bureau of Mines and is utilizing in greenbelt development.</p> <p>The soil and over burden (OB) generated during the mining operation is being stacked at designated dump site as per the approved mining plan. The height, width and angle of repose of dumps are maintaining as per the condition stipulated in the environmental clearance. OB dumps will be vegetated with native species to prevent erosion and surface run off. Geo textiles will be used by the PP for stabilization of the dump in critical areas. During closure of the time the over circumstances the PP will bring top soil from other areas to fill the pit. In the partially filled pit, the maintenance of terraces will be strictly followed to allow soil to stabilize on the terraces. Monitoring and management of rehabilitated areas will be</p>																										



	Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Status shall be reflected in the six monthly compliance reports.	maintained by the PP until the vegetation becomes self-sustaining.																				
(vii)	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off or water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted and maintained properly. The sump capacity shall be designated keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site, and it shall allow adequate retention period for proper settling of silt material.	Complied with. Catch drain and siltation ponds has been constructed around the mine working, mineral and OB dumps to prevent the run-off water and flow of sediments directly into the river. Water collected in mine pits is being used for dust suppression and green belt development. Maintenance of drains is being done as and when required. Sedimentation tank are constructed to ensure that proper retention period for settling of silt. The Sump capacity is being maintained by the PP within safety margin.																				
(viii)	Plantation shall be raised in a 7.5 m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting native species, following the CPCB guidelines for green belt plantation and in consultation with the DFO (Social Forestry). Greenbelt shall be developed all along the mine lease in a phased manner and shall be completed within first five years.	Being compiled with. Project Proponent has also being carrying out plantation by maintaining a green belt of 7.5m safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc by planting native species, following the CPCB guidelines. Greenbelt is being developed all along the mine lease in a phased manner. Detailed report are attached herewith which is earlier submitted to The Indian Bureau of Mines. <table><tr><th>Duration</th><th>No. of trees planted</th><th>Area covered (in Ha.)</th><th>No. of trees survived</th><th>Survival rate</th></tr><tr><td>Oct-Dec 2022</td><td>Nil</td><td>Nil</td><td>Nil</td><td>-</td></tr><tr><td>Jan-Mar 2023</td><td>60</td><td>0.0430</td><td>41</td><td>68.33 %</td></tr><tr><td>Cumulative as on 31.03.2023</td><td>4166</td><td>1.9591</td><td>3166</td><td>75.92 %</td></tr></table> Detailed report attached as an Annexure-XIII	Duration	No. of trees planted	Area covered (in Ha.)	No. of trees survived	Survival rate	Oct-Dec 2022	Nil	Nil	Nil	-	Jan-Mar 2023	60	0.0430	41	68.33 %	Cumulative as on 31.03.2023	4166	1.9591	3166	75.92 %
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Oct-Dec 2022	Nil	Nil	Nil	-																		
Jan-Mar 2023	60	0.0430	41	68.33 %																		
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(ix)	Regular monitoring of water quality, both upstream and downstream of water bodies shall be carried out; records / data shall be maintained and submitted to the NE Regional Office, MoEF&CC, Shillong and MSPCB.	Complied with. Monitoring of water quality both upstream and downstream are being maintained and records are submitted to the NE Regional Office, MoEF&CC, Shillong and MSPCB. The following has been analyzed and average result mentioned as below:- <table><tr><th>Sl. No.</th><th>Parameters</th><th>Upstream</th><th>Downstream</th></tr><tr><td>1</td><td>pH</td><td>7.23</td><td>7.27</td></tr><tr><td>2</td><td>Dissoled Oxygen (mg/lit)</td><td>12.58</td><td>12.27</td></tr><tr><td>3</td><td>Total Dissolve Solids (mg/Lit)</td><td>160.67</td><td>174.50</td></tr><tr><td>4</td><td>Conductivity (mg/Lit)</td><td>155.17</td><td>161.67</td></tr></table>	Sl. No.	Parameters	Upstream	Downstream	1	pH	7.23	7.27	2	Dissoled Oxygen (mg/lit)	12.58	12.27	3	Total Dissolve Solids (mg/Lit)	160.67	174.50	4	Conductivity (mg/Lit)	155.17	161.67
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6	Calcium Hardness (mg/Lit)	160.33	160.33															
7	Magnesium Hardness (mg/Lit)	70.00	67.17															
8	Alkalinity (mg/Lit)	66.50	74.00															
		Detailed report attached as an Annexure-XI																
(x)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by stabling a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to the Regional Office, MoEF&CC, Shillong, and MSPCB.	Agreed to Comply. We have done detailed Hydro geological survey by a CGWS approved third party & as per the report no ground water found in our mining lease area. The utilization of ground water has not being done by the Project Proponent for any activities. As per the Hydro geological survey recommendation Company has established a monitoring well (Borewell & Piezometer) to interface drawn about the depth of ground water level in the mining lease hold area. Detailed Hydro geological Survey report has submitted to IRO-Shillong vide letter no.- MCL/ENV/MoEF&CC/Compliance LS-I/2022-23/ 33, dated 2nd Dec 2022. No ground water level observed during the period of October-2022 to March-2023. Whenever the Ground water level will observed, Company will submit the Groundwater level and quality report to IRO-Shillong on six monthly basis.																
(xi)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora and fauna in the project area.	Agreed to comply. The PP has taken all precautionary measures during mining operation for conservation and protection of endangered flora and fauna in the project area.																
(xii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc.	No Contract labours are employed in the mines. However, Provision has been made for the housing of company employees involved in mining activates within the site with all necessary infrastructure and facilities such as fuel for cooking, toilets, STP, safe drinking water, medical health care, creche etc.																
(xiii)	Critical parameters such as PM _{2.5} , No _x , So _x , in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per MoEF's notification in 2009. Further, quality of discharged water shall also be monitored (TDS, DO, pH and Total suspended Solids-TSS). The data shall be uploaded on the website of the company and also prominently displayed at the project site. The circular No-J20012/1/2006-IA-II (M) dated 27.05.2009 issued by the MoEF&CC, which is available on the	Noted for compliance. Critical parameters such as PM _{2.5} , No _x , So _x , in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer is being monitored periodically as per MoEF's notification in 2009. Further, quality of ETP discharged water is being also be monitored (TDS, DO, pH and Total suspended Solids-TSS).																



website of the Ministry www.envfor.nic.in shall also be referred to in this regard for its compliance.

Parameters	Obtained value in Q3	Obtained value in Q4	AVG
pH	6.82	6.86	6.84
TSS	31	33	32
BOD	19	21	20
COD	68	73	70.5

The monitoring data is being uploaded on the company website <https://topcem.in/> and displaying at the main gate of the project. Detailed reports are attached as **Annexure- XII & XIV**.

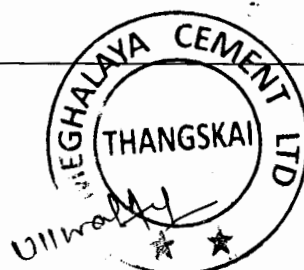
- (xiv) Industrial waste water (workshop and waste water from the mine) shall be properly collected, treated so as to conform to the standard prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of effluents.

Agreed to comply.

Effluent Treatment Plant (ETP) with 25 KLD Capacity has already been installed at HEMM workshop. Workshop waste water is being reuse in vehicle washing and green belt development after treatment and oil sludge are being properly collected and utilize as alternative fuel in Kiln. The Testing report of Workshop waste water after treatment mentioned below:-

Parameters	Obtained value in Q3	Obtained value in Q4	AVG
pH	6.82	6.86	6.84
Temperature	25.4	25.4	25.4
Total Suspended solid	31	33	32
BOD (3 days @27°C)	19	21	20
COD	68	73	70.5
Oil & Grease	<4.0	<4.0	<4.0
Total Residual Chlorine	<0.01	<0.01	<0.01
Ammonical Nitrogen (as N)	12	16	14
Total Kjeldahl Nitrogen (as NH3)	26	29	27.5
Free Ammonia (as NH3)	<0.01	<0.01	<0.01
Fecal Coliform (as FC)	822	-	822

Detailed testing report is attached as **Annexure- XIV**.



(xv)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Complied with. PPEs (like Nose Mask, Safety Goggles and other protective equipments) are being provided to all workers. Safety and health training and Awareness are given to the workers regularly by Safety Officers.																								
(xvi)	A separate environmental management cell with suitable qualified personnel shall be set-up. The PP shall put in place an administrative mechanism to deal with environmental issues, to ensure compliance to the EC conditions and to implement the EMP, biodiversity action plan, etc. The PP shall inform the details along with the name of such responsible officials, to the SEIAA, MSPCB and the Regional Office of the MoEF & CC, Shillong. In case of any change in respect of the officials responsible, the same shall be intimated by the PP.	Complied with. A separate environmental management cell with suitable qualified personnel is already set up and they are reporting directly to the Head of the Plant. The environmental Cell is prepared with the guidance of Indian Bureau of Mines (IBM) and the cell is looking after all the deal with environmental issues, to ensure compliance to the EC conditions and to implement the EMP, biodiversity action plan, CTO conditions of MSPCB and sustainable development of mining activities etc. and also responsible for the said works. The details of the environmental management cell and name of such responsible officials are attached as an Annexure-XV .																								
(xvii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purposes. Year wise expenditure shall be reported to the SEIAA, Meghalaya and the Regional Office, MoEF&CC, Shillong.	Agreed to comply. The funds earmarked for environment protection measure are kept in the separate account. <table border="1"> <thead> <tr> <th>SL. No.</th><th>Head</th><th>Total Expenditure (in lakh)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Plantation</td><td>4.77</td></tr> <tr> <td>2</td><td>Dust suppression</td><td>14.82</td></tr> <tr> <td>3</td><td>Preparation of Retaining wall, Checkdam, Siltation Tanks and Garland drains</td><td>0.72</td></tr> <tr> <td>4</td><td>PPE supply to mine workers</td><td>0.54</td></tr> <tr> <td>5</td><td>Water Treatment & Maintenance of Effluent Treatment Plant</td><td>0.60</td></tr> <tr> <td>6</td><td>Dump Compaction</td><td>1.41</td></tr> <tr> <td colspan="2">Total</td><td>22.86</td></tr> </tbody> </table> Detaile of expenditure is being reported to SEIAA, Meghalaya and Regional Office, MoEF & CC, Shillong on Six monthly bases. Detailed expenditures for the period of Oct-2022 to Mar-2023 are attached as an Annexure-XVI .	SL. No.	Head	Total Expenditure (in lakh)	1	Plantation	4.77	2	Dust suppression	14.82	3	Preparation of Retaining wall, Checkdam, Siltation Tanks and Garland drains	0.72	4	PPE supply to mine workers	0.54	5	Water Treatment & Maintenance of Effluent Treatment Plant	0.60	6	Dump Compaction	1.41	Total		22.86
SL. No.	Head	Total Expenditure (in lakh)																								
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(xviii)	Environment Statement for each financial year ending 31 st March in Form – V as mandated shall be submitted to MPSCB with copy of the same to SEIAA, Meghalaya and Regional Office,	Environment Statement for each financial year ending 31 st March in Form – V as mandated is being submitted to MPSCB with copy of the same to SEIAA, Meghalaya and Regional Office,																								



	MoEF&CC, Shillong	MoEF&CC, Shillong. Environment Statement in Form-V for FY: 2022-23 was submitted to MsPCB vide letter no. MCL/Env/MsPCB/2023-2024/10, dated 19/06/2023. Copy of the Form-V is attached as an Annexure-XVII
(xix)	The Project Proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Regional Office, MoEF&CC, Shillong, Central Pollution Control and State Pollution Control Board. The certified copy of the same shall be forwarded to the SEIAA and SEAC, Meghalaya.	Agreed to Comply. Six monthly reports on the status of the implementation of the stipulated environmental safeguards are being submitted to the Regional Office, MoEF&CC, Shillong, Central Pollution Control and State Pollution Control Board. Also submitting the certified copy of the same to the SEIAA and SEAC, Meghalaya.
(xx)	A copy of clearance letter shall be marked to concerned local bodies / NGOs, if any, from whom suggestion / representation has been received while processing the proposal.	Complied With.
(xxi)	The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance. A copy of the clearance letter shall be made available on the website of the PP.	Complied With. PP has advertised in two local newspapers i.e The Shillong times and Mawphor on dated 30 th May 2018 and 26 th May 2018 respectively widely circulated regarding the accorded of environmental clearance. A copy of the clearance letter available on the Company website https://topcem.in News paper advertisement are attached as an Annexure-XVIII
(xxii)	Official from the Regional Office of MoEF & CC, Shillong, MSPCB or any authorized officials, who would be monitoring the implementation of the conditions mentioned herein, shall be given full cooperation, facilities and documents / data by the PP during their inspection.	Agreed for compliance. Full co-operation are given to the official from Regional Office of the MoEF& CC, Shillong, MSPCB by furnishing the documents / data / information / monitoring reports during their inspection.
(xxiii)	The Project Proponent shall not violate applicable provisions of any Acts, Rules, Orders of the Government and judicial orders issued by the Hon'ble Supreme Court / High Courts/ NGT, applicable to the project.	Agreed for compliance. The PP do not violate applicable provisions of any Acts, Rules, Orders of the Government and judicial orders issued by the Hon'ble Supreme Court / High Courts/ NGT, applicable to the project.
(xxi)	The SEIAA reserves the right to add or delete any conditions or safeguarding measures found necessary, and to take action including revoking the clearance granted, if conditions stipulated are not implemented by the PP or in case of submission of false document / wrong declaration.	Noted. Agreed to compile with.



(xxv)	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green tribunal Act, 2010.	Noted.
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GOVERNMENT OF MEGHALAYA
OFFICE OF THE DIVISIONAL FOREST OFFICER JAINTIA HILLS WILDLIFE
DIVISION : JOWAI.

Annex - I
Received.
16/8/18

NO.MWL/JH/228/Cemt.Factory/2017-18/ 307

Dated Jowai, the 14th June, 2018.

From: - The Divisional Forest Officer,
Jaintia Hills Wildlife Division,
Jowai.

To, ☒ The Meghalaya Cement Limited.

18/6/18

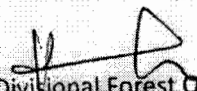
Sub :- Issue of Wildlife Clearance Certificate regarding South Khliehji lime Stone
Mine 31.05 ha at Thangskai, east Jaintia Hills, Meghalaya of
Meghalaya Cement Limited.

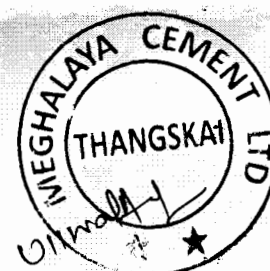
Sir,

With reference to the subject cited above, as per your letter No Ref
MCL/Comm/DFO (Wildlife)/2018/14 Dt.30/04/2018, please find enclosed herewith the letter from the
Additional principal Chief Conservator of Forests, Wildlife & Chief Wildlife Warden, Meghalaya, Shillong
Dt. 06/06/2018 for information and necessary action

Enclosed: - as above.

Yours faithfully,


Divisional Forest Officer,
Jaintia Hills Wildlife Division, Jowai.



**GOVERNMENT OF MEGHALAYA
OFFICE OF THE ADDITIONAL PRINCIPAL CHIEF CONSERVATOR
OF FORESTS, WILDLIFE & CHIEF WILDLIFE WARDEN,
MEGHALAYA, SHILLONG**

No.FWC/G/278/Pt/928

Dated Shillong, the 6 June, 2018.

To,

✓ The Divisional Forest Officer,
Jaintia Hills WL Division,
Jowai.

am
18/6/18

Sub :-

Issue of wildlife Clearance certificate regarding South
Khliehji Lime Stone Mine 31.05 ha at thangkai, East
Jaintia Hills, Meghalaya of Meghalaya cement limited.

Ref:

No. MWL/JH/228/Cemt.Factory/2016-17/20
Dt, 18.04.2018.

With reference to your letter cited above, I am to inform
you that since the project in question does not fall within a Protected Area
or Eco- Sensitive Zone, the approval of Standing Committee of National
Board for wildlife is not required.

This is for your information and Necessary action.

[Signature]
Additional Principal Chief Conservator of Forests,
Wildlife & Chief Wildlife Warden
Meghalaya, Shillong. *[Signature]*

RECEIPTRegd No. 168Date 8.6.18

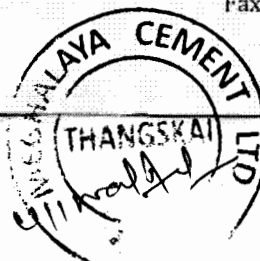
Rcpt. From _____

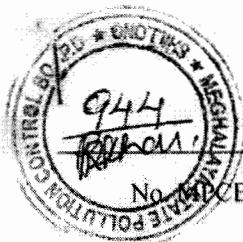
Sylvan House, Lower Lachumiere
Shillong 793001



Phone: 91 364 2225660

Fax: 91 364 2502184





Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya

'ARDEN' Lumpyngngad, Shillong - 793014

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



No. MPCB/CON-191-2016/Vol-I/2023-2024/18

Dated Shillong, the 9 June, 2023

RENEWAL OF CONSENT TO OPERATE

CONSENT TO OPERATE under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, as amended (to be referred as Water Act and Air Act respectively).

The **CONSENT to OPERATE** granted in favour of **M/S MEGHALAYA CEMENTS LTD.** vide **T.O. Order No. MPCB/CON-191-2016/2016-2017/15 dated 24.02.2018** for operating a **31.05 Ha. LIMESTONE MINE** and subsequent renewals located at Thangskai, East Jaintia Hills District with a Project cost of Rs. 9.00 (Rupees Nine Crores) only and which expired on 28th February 2023 is hereby renewed for a period of 1(one) year i.e upto **28th February 2024** under the following **terms and conditions** under the following **terms and conditions**:

I. General Conditions:

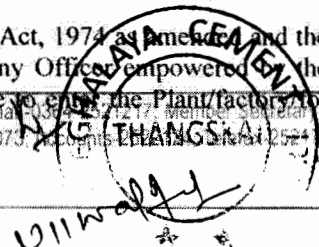
1. This Consent has been accorded based on the particulars furnished by the applicant on behalf of **M/S MEGHALAYA CEMENTS LTD.** and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice;
2. The Consent to Operate is valid for a period upto **28th February 2024** unless otherwise suspended or revoked.
3. 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;
4. This Consent does not convey any property right in either real or personal property or any exclusive privileges, nor does it authorizes any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulation;
5. No air, water and soil pollution shall be created by the Industry beyond the prescribed permissible limits;
6. The industry shall take adequate measures for control of noise from its own source so as to comply with the Standards below:

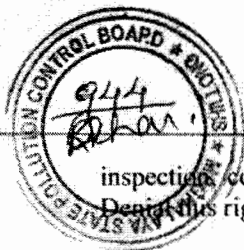
LIMIT in dB(A) LEQ	
DAY TIME (6:00AM-9:00PM)	NIGHT TIME (9:00PM-6:00AM)
75	70

7. The caves should be preserved, in case any cave or cave's routes are encountered in the area the same shall have to be reported to the Board immediately.
8. 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;

9. 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

Contact details : Email : memisecy.spcb-meghal.gov.in, megspcb@rediffmail.com; Telephone Numbers: Chairman-252172, Member Secretary-2522802; Scientific-2521514; Engineering-2521533; Legal-2520044; Laboratory-2521726; Administration-2520073; info@megspcb.org; Fax-2521564





Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya

'ARDEN' Lumpyngngad, Shillong - 793014

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



inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial of this right will cause withdrawal of the Consent Order;

10. The Company shall comply with all the environment protection measures and safeguards recommended in the EIA/EMP;

II. Specific Conditions:

A. Water & Soil Aspect:

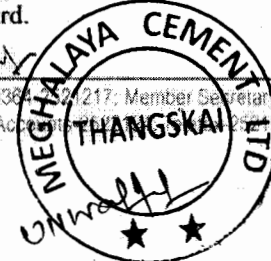
The following measures should be taken up by the industry for prevention and control of water pollution:

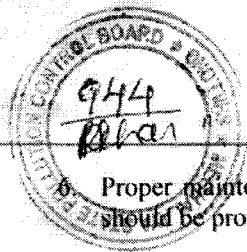
1. Check dams/tailing dams should be provided wherever necessary to prevent the direct discharge of mine's effluent/run off etc. into the natural water courses.
2. Facilities should be maintained for utilizing the water collected in the dams for spraying of the mine, haul roads, etc. but not to discharge directly into the natural streams without proper treatments so as to conform to the prescribed effluent standards.
3. Dumping of overburden, mine spoils etc. should be properly made in identified and demarcated Sites. Such dumping sites should be on impervious and stable ground to avoid percolation of contaminations into the water table and for prevention of landslides.
4. Proper planning should be made so that the dumps are to be done in steps for better stabilization and the dumping sequence should be planned in such a way that plantation over the dumps can be done simultaneously with dumping.
5. Continuous compacting of the dumps should be done to ensure its stability.
6. Sedimental basin below the overburden dumps including plantation and vegetation over the dumps should be maintained to prevent siltation of the natural water courses.
7. Facilities should be maintained for storing the top soil separately so that the same be utilised for afforestation/plantation over the dumps and excavated mines pits.
8. Setting up of requisite number of permanent water quality monitoring stations on the natural water courses both upstream & down stream and selection of sampling points/stations should be made in consultation with this Board at the earliest.

B. Air & Noise Aspect:

1. A well equipped mechanical workshop should be maintained for proper maintenance of heavy earth movable machineries (HEMM). Fuel/air burning ratio of all the HEMM is to maintained at an optimum condition so as to reduce air pollution from the exhaust emission of these machineries.
2. Regular checking of the exhaust emission from HEMM should be conducted by using requisite instruments for the purpose.
3. If dry drilling is to be employed, appropriate dust collectors should be provided to control the concentration of suspended particulate matters in the emission.
4. Plantation along the haul roads to reduce dust retention in the air should be maintained.
5. Setting up & operation of at least three ambient air quality monitoring station with 120° angle between stations for monitoring the ambient air quality including micro meteorological data should be done immediately. Selection of station should be done in consultation with this Board.

Contact details : Email : memsecy.spob-meg@gov.in; megspcb@rediffmail.com; Telephone Numbers: Chairman-0364-2522802; 2522802; Member Secretary-2522802; Scientific-2521514; Engineering-2521533; Legal-2520044; Laboratory-2521726; Administration-2520073; Accounts-2521564





Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya

'ARDEN' Lumpyngngad, Shillong - 793014

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



6. Proper maintenance, lubrication etc. of all moving machineries should be maintained and all engines should be provided with high efficiency silencers.
7. Primary blasting methods should be chosen in such a way so as to have a minimum impact of noise and vibration on the environment.
8. Usage of hydraulic rock breaker for boulder breaking instead of conventional secondary blasting to minimize noise pollution should be adopted as far as practicable.
9. Adequate measures taken should be made to minimize the air blast so that the blast size is kept at the optimum for less noise.
10. Periodic monitoring of noise and vibration level should be conducted by following prescribed norms & measuring instruments for the purpose.
11. The optimum stemming column is to be maintained so that explosives are blasted in confinement stage.
12. 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.
13. A detailed Report of Compliance to all the Terms and Conditions stipulated in this Consent should be submitted annually along with the application for grant of Renewal of Consent to Operate.

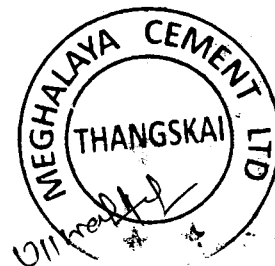
(R. Nainamalai, IFS)

MEMBER SECRETARY

Meghalaya State Pollution Control Board
Shillong

Copy to: -

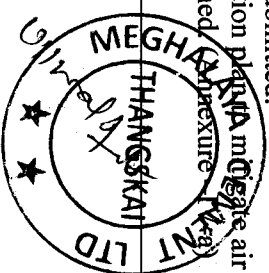
1. The Director of Mineral Resources, Meghalaya, Shillong for information and necessary action with regard to Mining Lease issued.
2. ☒ **M/S MEGHALAYA CEMENTS LTD.,** C/o The Director, Thangskai, East Jaintia Hills District - 793200 for information and necessary action.
3. Guard File No. TB-CON-2023-RCTO.



Details of Action Plan for the issues raised during the Public Hearing by the stakeholders of the Elaka Narpuh for 31.05 ha Limestone mines area (as per EIA) and agree to comply.

Annexure-III

Sl.No.	Issues	Action Plan	Status / Compliance
1.	During the Public Hearing concern was raised by the stakeholders that as per the environmental conditions granted to Meghalaya Cements Limited for 31.05 ha. limestone mines that the company should allocates about 40 lakh as a capital cost & 25 lakh as annual recurring cost will be kept for the various CSR activities like Health facilities (Ambulance), Education (Development School), Welfare of youth and community development.	M/s Meghalaya Cements Limited will allocate about 40 lakh as a capital cost & 25 lakh as annual recurring cost will be kept for the various CSR activities like Health facilities (Ambulance), Education (development School), welfare of youth and community development.	The detail CSR activities for financial year 2018-2019 have attached. (Annexure –IV-a) Attached herewith as CSR detail - (Annexure –IV)
2.	Local residents have demand from the company to provide the cement at cheap rate.	The company will provide cement at cheap price to local residents.	The detail of cement distribution has attached. (Annexure –IV-a)
3.	The local residents has raised the concern and requested the officials of M/s Meghalaya Cements Limited to take appropriate mitigative measures to avoid pollution to the neighboring village due to mining activities.	M/s Meghalaya Cements Limited has taken appropriate mitigative measures to avoid pollution to the neighboring village due to mining activities.	The detail of action plan has attached (Annexure –IV -a)
4.	The local residents has raised the concern and demanded that M/s Meghalaya Cements Limited should generate 60% employment for local people also the Meghalaya Cements Limited should not emit any air pollution from its plant and should not discharge any waste into rivers bodies.	M/s Meghalaya Cements Limited will provide 60% employment to local people also will not emit any air pollution from plant and should not discharge any waste into rivers bodies.	Detailed employment record for mines has attached. The employment given in the mines is controlled by the department mining of our company and the list of employee working under the mining department is already submitted. Detail action plan for air and water pollution has attached (Annexure –IV-a)



ACTION PLAN FOR MITIGATION OF ENVIRONMENTAL POLLUTION

Annexure-III – (a)

Sl.No.	Environmental Impact	Action Plan	Status / Compliance	Cost	
				Capital cost	Recurring Cost
1.	Water pollution due to surface run-off from mines area.	a) M/s Meghalaya Cements Limited will construct check dam to avoid water contamination of local water body due to carry over sedimentation from mines area due mining activities.	The company have constructed check dam of length about 160 m at the upstream to control the runoff water to the mines and another two check dams is constructed below the waste dam and soil dam having length of about 580 m and 530 m (the last one is in progress) at the downstream.	Check dam construction – Rs 2.1 Lacs	Cleaning – once in a year – Rs 0.25
		b) M/s Meghalaya Cements Limited will construct garland drain on both side of the haul road and around the soil dump and OB dump to avoid mixing of sediments from mines area to surface run –off.	To avoid mixing of sediments from mines area to surface run –off the company have constructed garland drain of about 1125 m long on both side of the haul roads and dumping yards.	Garland Drain construction – Rs 2.8 lacs	Cleaning – once in a year – Rs 0.25 Lacs
2.(a)	Air pollution due to generation of fugitive dust.	a) M/s Meghalaya Cements Limited will take necessary measures to avoid generation of fugitive dust due to movement of vehicles by providing water sprinkler on haul road for dust suppression.	Water sprinkling is being carried out regularly at the loading point and unloading points, haul roads regularly to suppress the fugitive dust.	i) Water Tanker – Rs 12.0 Lacs	i) Maintenance Cost- 0.4 Lacs ii) Driver Salary – Rs- 4.08 Lacs ii) Diesel & Lubricants- Rs- 2.0 lacs



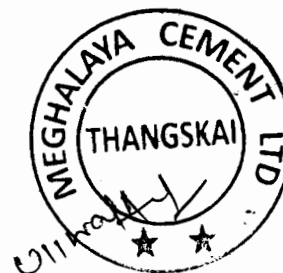
(b)		b) Plantation of native species to minimize the generation of air born dust due to movement of vehicles.	The afforestation is being carried out as per the approved mining plan and EIA and EMP. A total of 2324 nos. saplings of local species have been planted as on September, 2019 with survival rate of about 77.41%.	Area preparation, Sapling cost, Fertilizer and Fencing – Rs 2.75 lacs	Watch & ward – Rs- 3.25 Lacs
(c) & (d)	Air pollution due to dust generation during mining operation.	c) M/s Meghalaya Cements Limited will use wet drilling system to avoid fugitive emission due to drilling process.	The Meghalaya Cements Limited is using wet drilling from the inception of mining activities and the drilling machines are well equipped with the process.	i) Installation of Wet drilling system to ROC – Rs 0.7 Lacs. ii) Purchase of Real-time Air Sampler – Rs 4.2 Lacs.	
		d) Construction of metallic Haul Road to minimize fugitive dust generation	Metallic haul road has been prepared to transport/carryout limestone as well as Overburden.	Construction Cost – Rs 7.2 Lacs	Maintenance Cost – Rs 3.5 Lacs.
3.	Modification of exhaust system of mining machineries.	M/s Meghalaya Cements Limited will upgrade the exhaust of drilling and excavation machine to mitigate exhaust emission from the machines.	Continuously and periodically we are monitoring the emission of CO ₂ gases and we are taking necessary initiatives as and when required.	i) Flue Gas Analyzer Cost- Rs 2.15 Lacs	i) Spare & maintenance – Rs 0.1 Lacs
4.	Vibration due to use of traditional explosives.	M/s Meghalaya Cements Limited will use advance explosive (NONEL) to minimize the vibration generated during the explosion activity.	i) The Meghalaya Cements Limited is using NONEL/ (bottom initiations system) resulting least vibration.	i) Purchase of Minimate to measure ground vibration – Rs 2.47 Lacs/-	i) Cost of Nonel – Rs 4.7 Lacs
5.	Maintenance of Soil Dump, OB Dump and Haul road.	Compaction of dumps and Haul roads to maintain the Stability.	JCB Compactor is used to maintain the stability of dumps and haul roads.	i) JCB Compactor – Rs 12.0 Lacs	i) Maintenance Cost- 1.5 /- Lacs ii) Driver Salary – Rs- 2. 2 Lacs ii) Diesel & Lubricants- Rs- 0.8



Occupational Health survey of persons employed in Mine of South Khliehjar Limestone Mine (31.05 Ha).

A) South Khliehjar Limestone Mine (31.05 Ha)

SL No	Name of person	Designation	Date of examination
1	Rakesh Kumar Sharma	Mining Mate	11.01.2023
2	Ajay Kumar Thakur	Blaster	11.01.2023.
3	Hemanta Borah	Drill Operator	11.01.2023.
4	Nanhe Kumar Singh	Blasting Helper	28.02.2023.
5	Jitendra kumar Singh	Excavator Operator	28.02.2023.
6	Ram Kalesh Pal	Helper	28.02.2023.
7	Bikki Kumar	Supervisor	28.02.2023.
8	Sunil Singh	Hyva Operator	28.02.2023.
9	Nazrul Islam Laskar	Diesel Mechanic	28.02.2023.
10	Nirbhay Kumar	Blasting Helper	28.02.2023.



MCL OCCUPATIONAL HEALTH CENTER

Health Center Staff			
Sr No.	Name of Staff	Designation	Course
1	Dr. N.Ranjit Singh	Medical officer	MBBS
2	Dr. Gita Shylla	Dentist	BDS
3	Sabir Hussain	Male Nurse	GNM
4	Tarini Bazburah	Compounder	RMP
5	Shankar Singha	Lab Technician	MLT
6	Shilpi Nath	Nurse	ANM
7	Wanpli Talang	Nurse	ANM
8	Deimonmi Suiam	Dresser	First Aid Training
9	Other Staffs	1 no.	JR. ASSISTANT

Hospital Equipment			
Sr. No.	Hospital Equipment	Quantity	Remarks
1	ECG Machine	1	
2	Audiometry	1	
3	Spirometry (PFT)	1	
4	Cardiac Monitor	1	
5	Oxygen Cylinder for oxygen Inhalation (Jambo)	5	
6	Oxygen Cylinder for oxygen Inhalation (10 kg)	6	
7	Suction Machine	1	
8	Nebulizer Machine	2	
9	Bed in Ward	2	
10	Bed in Emergency ward	1	

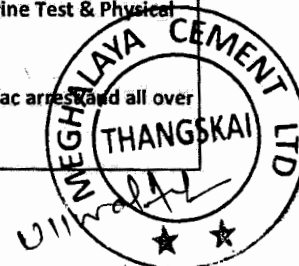
Lab Equipment			
Sr. No.	Hospital Equipment	Quantity	Remarks
1	Semi auto analyzer	1	
2	Micro scop	1	
3	Incubator	1	
4	Centrifuge machine	1	
5	Hemometer	1	
6	Accu check machine	1	
7	Blood cell counter	1	
8	Hemocyto meter	1	

TEST FACILITY	
1	Blood RE (TC, DLC, ESR, HB%)
2	Blood Sugar
3	KFT, LFT, Lipid Profile
4	Malaria
5	Trop - T
6	VDRL, HBSAg, HCB
7	ASO titre
8	Widal test
9	Rheumatoid factor
10	Grouping, ABO RH typing
11	Uric acid
12	AFB
13	Urine analysis (test)

DENTIST FACILITY	
1	Dentist X-Ray Machine
2	Dentist Chair

AMBULANCE			
1	Ambulance Traveler (Advance Life Support)	1	With Facility = Cardiac Monitor - 1 no., Defibrillator - 1 & Oxygen support
2	Ambulance (TATA SUMU)	1	With Facility = Oxygen support

Hospital Emergency Service	
1	<p>A) Annual Periodic Medical Examination of Employees. (ECG, Audiogram, PFT, Blood Test, Urine Test & Physical examination)</p> <p>B) Handling Emergencies in OHC Centre :- Accidental Cases, Burning cases, Snake bite, Cardiac arrest and all over emergency and primary treatment given.</p> <p>C) OPD</p>





POLLUTION TESTING STATION**LADTHALABOH, JAINTIA HILLS**

Name of Licence Holder:-
M/s JASPER I SLONG
 Ladthalaboh, Jaintia Hills
 Jowai - 793150

LICENCE NO. Com/Trans/74/2004/5
 DATE OF ISSUE :- 21ST March, 2005

Book No. **76**SI No. **7505**Date **21-04-2023**

SMOKE EMISSION TEST REPORT
(DIESEL DRIVEN VEHICLES)

The Vehicle No **ML 11 3282** is tested for emission level and reading is as under.

Type of Vehicle other than agriculture tractors	Notified Standard of Maximum smoke density			Actual Reading	
	Light absorption co-efficient	Hatidye Units	Bosch Unit	Light absorption co-efficient	Hatidye Units
1. Full load at 60 to 70% of maximum engine rated rpm declared by the manufacture. or	3.25	75	5.2		41.04
2. Free acceleration	2.45	65	5.2		

Certified that the vehicle meets the emission standard fixed under Rule 115 (2) of the Central Motor Vehicles Rules 1989. This Certificate is valid **20-10-2023**

Com/ Trans/PTS (JIS)/44/2005/74, dated: 17.05.2017

Authorised Signature
 Govt. Approved
 Pollution Testing Station
 Ladthalaboh, Jowai, Meghalaya



POLLUTION TESTING STATION

LADTHALABOH, JAINTIA HILLS

Name of Licence Holder:-
M/s JASPER I S LONG
Ladthalaboh, Jaintia Hills
Jowai - 793159

LICENCE NO. Com/Trans/74/2004/5
DATE OF ISSUE :- 21ST March, 2005

Book No. 76

SI No. 7513

Date 21-04-2023

SMOKE EMISSION TEST REPORT (DIESEL DRIVEN VEHICLES)

The Vehicle No ML 11 1798 is tested for emission level and reading is as under.

Type of Vehicle other than agriculture tractors	Notified Standard of Maximum smoke density			Actual Reading	
	Light absorption co-efficient	Hatidye Units	Bosch Unit	Light absorption co-efficient	Hatidye Units
1. Full load at 60 to 70% of maximum engine rated rpm declared by the manufacture. or	3.25	75	5.2		48.10
2. Free acceleration	2.45	65	5.2		

Certified that the vehicle meets the emission standard fixed under Rule 115 (2) of the Central Motor Vehicles Rules 1989. This Certificate is valid 20-10-2023

Com/ Trans/PTS (JIS)/44/2005/74, dated: 17.05.2017

Authorised Signature
Seal of the Testing Station
Pollution Testing Station
Ladthalaboh, Jowai, Meghalaya



POLLUTION TESTING STATION

LADTHALABOH, JAINTIA HILLS

Name of Licence Holder:-
M/s JASPER I SLONG
Ladthalaboh, Jaintia Hills
Jowai - 793150

LICENCE NO. Com/Trans/74/2004/5
DATE OF ISSUE :- 21ST March, 2005

Book No. 76

SI No. 7511

Date 21-04-2023

SMOKE EMISSION TEST REPORT (DIESEL DRIVEN VEHICLES)

The Vehicle No ML 11 1800 is tested for emission level and reading is as under.

Type of Vehicle other than agriculture tractors		Notified Standard of Maximum smoke density			Actual Reading	
		Light absorption co-efficient	Hatidye Units	Bosch Unit	Light absorption co-efficient	Hatidye Units
1.	Full load at 60 to 70% of maximum engine rated rmp declared by the manufacture. or	3.25	75	5.2		42.07
2.	Free acceleration	2.45	65	5.2		

Certified that the vehicle meets the emission standard fixed under Rule 115 (2) of the Central Motor Vehicles Rules 1989. This Certificate is valid 20-10-2023

Com/ Trans/PTS (JIS)/44/2005/74,dated: 17.05.2017

Authorised Signature
S. Slong
Pollution Testing Station
Ladthalaboh, Jowai, Meghalaya



POLLUTION TESTING STATION**LADTHALABOH, JAINTIA HILLS**

Name of Licence Holder:-
M/s JASPER I S LONG
 Ladthalaboh, Jaintia Hills
 Jowai - 793150

LICENCE NO. Com/Trans/74/2004/5
 DATE OF ISSUE :- 21ST March, 2005

Book No. 76

SI No. 7510

Date 21-04-2023

SMOKE EMISSION TEST REPORT
(DIESEL DRIVEN VEHICLES)

The Vehicle No ML 11 1801 is tested for emission level and reading is as under.

Type of Vehicle other than agriculture tractors	Notified Standard of Maximum smoke density			Actual Reading	
	Light absorption co- efficient	Hatidye Units	Bosch Unit	Light absorption co- efficient	Hatidye Units
1. Full load at 60 to 70% of maximum engine rated rmp declared by the manufacture. or	3.25	75	5.2		43.04
2. Free acceleration	2.45	65	5.2		

Certified that the vehicle meets the emission standard fixed unde Rule 115 (2) of the Central Motor Vehicles Rules 1989. This Certificate is valid 20-10-2023

Com/ Trans/PTS (JIS)/44/2005/74,dated: 17.05.2017

Jasper I. Long
 Authorised Signature
 Seal of Pollution Testing Station
 Ladthalaboh, Jowai, Meghalaya



POLLUTION TESTING STATION

LADTHALABOH, JAINTIA HILLS

Name of Licence Holder:-
M/s JASPER I S LONG
Ladthalaboh, Jaintia Hills
Jowai - 793150

LICENCE NO. Com/Trans/74/2004/5
DATE OF ISSUE :- 21ST March, 2005

Book No. 71

SI No. 7040

Date 06-01-2023

SMOKE EMISSION TEST REPORT (DIESEL DRIVEN VEHICLES)

The Vehicle No ML 11 5569 is tested for emission level and reading is as under.

Type of Vehicle other than agriculture tractors	Notified Standard of Maximum smoke density			Actual Reading	
	Light absorption co-efficient	Hatidye Units	Bosch Unit	Light absorption co-efficient	Hatidye Units
1. Full load at 60 to 70% of maximum engine rated rmp declared by the manufacture. or	3.25	75	5.2		32.07
2. Free acceleration	2.45	65	5.2		

Certified that the vehicle meets the emission standard fixed under Rule 115 (2) of the Central Motor Vehicles Rules 1989. This Certificate is valid 05-07-2023

Com/ Trans/PTS (JIS)/44/2005/74, dated: 17.05.2017

Authorised Signature
Seal of the Testing Station
Pollution Testing Station
Ladthalaboh, Jowai, Meghalaya



POLLUTION TESTING STATION

LADTHALABOH, JAINTIA HILLS

Name of Licence Holder:-
M/s JASPER I S LONG
 Ladthalaboh, Jaintia Hills
 Jowai - 793150



LICENCE NO. Com/Trans/74/2004/5
 DATE OF ISSUE :- 21ST March, 2005

Book No. 71

SI No. 7001

Date 06-01-2023

SMOKE EMISSION TEST REPORT
(DIESEL DRIVEN VEHICLES)

The Vehicle No MA 11 5565 is tested for emission level and reading is as under.

Type of Vehicle other than agriculture tractors		Notified Standard of Maximum smoke density			Actual Reading	
		Light absorption co-efficient	Hatidye Units	Bosch Unit	Light absorption co-efficient	Hatidye Units
1.	Full load at 60 to 70% of maximum engine rated rpm declared by the manufacture. or	3.25	75	5.2		31.09
2.	Free acceleration	2.45	65	5.2		

Certified that the vehicle meets the emission standard fixed under Rule 115 (2) of the Central Motor Vehicles Rules 1989. This Certificate is valid 05-07-2023

Com/ Trans/PTS (JIS)/44/2005/74,dated: 17.05.2017

(Signature)
 Authorised Signatory
 Seal of the Testing Station
 Pollution Testing Station
 Ladthalaboh, Jowai, Meghalaya



POLLUTION TESTING STATION

LADTHALABOH, JAINTIA HILLS

Name of Licence Holder:-
M/s JASPER I S LONG
 Ladthalaboh, Jaintia Hills
 Jowai - 793150



LICENCE NO. Com/Trans/74/2004/5
 DATE OF ISSUE :- 21ST March, 2005

Book No. **71**SI No. **7002**Date **06-01-2023**

SMOKE EMISSION TEST REPORT
(DIESEL DRIVEN VEHICLES)

The Vehicle No **ML 11 55 70** is tested for emission level and reading is as under.

Type of Vehicle other than agriculture tractors	Notified Standard of Maximum smoke density			Actual Reading	
	Light absorption co- efficient	Hatidye Units	Bosch Unit	Light absorption co- efficient	Hatidye Units
1. Full load at 60 to 70% of maximum engine rated rpm declared by the manufacture. or	3.25	75	5.2		30.04
2. Free acceleration	2.45	65	5.2		

Certified that the vehicle meets the emission standard fixed under Rule 115 (2) of the Central Motor Vehicles Rules 1989. This Certificate is valid **05-07-2023**

Com/ Trans/PTS (JIS)/44/2005/74, dated: 17.05.2017

[Signature]
 Authorised Signature
 Seal of the Testing Station
 Ladthalaboh, Jowai, Meghalaya



NO: T32/WA/CGWB/SUO/Shill/897
Central Ground Water Board
State Unit Office, Shillong
Lumsophoh, Nongthymmai,
PIN-793 014
Date:13.06.2023

To
The Regional Director,
Central Ground Water Board,
North Eastern Region, Guwahati
NH-37, Opp. ISBT
Betkuchi, PIN-781035

Sub: Inspection of Rain Water harvesting Project.
Ref: 1.Your email dated, 28/02/2023

Sir,

Kindly refer to your email dated, 28/02/2023 regarding inspection of Rainwater Harvesting Scheme (RWHS) of M/s Meghalaya Cements Limited located in East Jaintia Hills District, Meghalaya. The same was inspected on 25/04/2023 and observed that the authority has taken appropriate steps for Rainwater Harvesting. Hence, it is recommended for approval of the said RWHS. However, construction work of some structures are still in progress and a few recommendations are made which may be implemented by the concerned authority. .

The inspection report is enclosed herewith for your perusal and necessary action.

Your faithfully,

[Signature]
13/06/23

(D. Rabha)
Scientist-D
SUO, Shillong

e-mail:cgwbshillong@gmail.com
picshillong-cgwb@nic.in

Phone: 0364-2223348



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भारत सरकार | Government of India

वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)

पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives

घर क्रमांक- २१६, दूसरी मंजिल, IDBI बैंक के ऊपर, चांदमारी | House No. 216, 2nd Floor, above IDBI, Chandmari,

गुवाहाटी, आसाम - ७८१०२१ | Guwahati, Assam Guwahati 781021

फोन (Phone):- 2652783 | फैक्स (Fax):- 2652503

संख्या/ No: A/EC/MG/P3/5(A271)

दिनांक / Dated : 23/03/2022

सेवा में / To,

M/s. Meghalaya Cements Ltd.,

Thangskai, East Jaintia Hills

Town/Village - East Jaintia Hills

Distt. EAST JAINTIA HILLS, State. Meghalaya. Pincode-793210

विषय /

Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO)

Subject:

situated at Survey No.: Umpeh Area, Village/Town. Village: Lumshnong, Distt. EAST JAINTIA HILLS, State Meghalaya

Licence No.: A/EC/MG/P3/5(A271) granted in Form P-3 of Ammonium Nitrate Rules, 2012 - Renewal regarding

महोदय / Sir(s).

आपके पत्र संख्या 60936 दिनांक 22/03/2022 के सन्दर्भ में अमोनियम नाइट्रेट नियम 2012 के प्ररूप पी-3 में जारी विषयक अनुज्ञप्ति दिनांक 31/3/2027 तक विधिवत नवीनीकृत कर आपको प्रेषित की जा रही है। कृपया अनुज्ञप्ति की पावती स्वीकार करें। / Reference to your letter No.: 60936 dated: 22/03/2022, the subject licence duly renewed upto 31/3/2027 and issued in Form P-3 of Ammonium Nitrate Rules, 2012 is forwarded herewith, Please acknowledge receipt of the licence.

अनुज्ञप्ति के आगामी नवीनीकरण हेतु कृपया निम्नलिखित दस्तावेज इस प्रकार प्रेषित करें कि वह दिनांक 31/3/2027 को या उससे पूर्व this office में प्राप्त हो जाएं / For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2027.

- विधिवत भरा हुआ एवं हस्ताक्षरित प्ररूप आर - 1 / Application in Form R-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति शुल्क का. अमोनियम नाइट्रेट नियम, 2012 के तहत ऑनलाइन आवेदन पोर्टल पर उपलब्ध ई-भुगतान सुविधा के माध्यम से लाइसेंस शुल्क ऑनलाइन जमा किया जाना है।
Licence fees renewable for one to five years, to be submitted online through e-payment facility available on online application portal under the Ammonium Nitrate Rules, 2012.
- मूल अनुज्ञप्ति मय अनुमोदित आरेखण / Original licence with approved plan.
- इस सम्बन्ध में कृपया अमोनियम नाइट्रेट नियम, 2012 के नियम 36 का भी सन्दर्भ लें / In this connection, please also refer to Rule 36 of Ammonium Nitrate Rules, 2012.
- रंगीन पासपोर्ट साइज के 6 फोटोग्राफ जिन पर सामने की ओर काले रंग की अमिट स्याही से ऑक्सीपायर (अमोनियम नाइट्रेट नियम, 2012 के नियम 2 (O) के अन्तर्गत यथा परिभाषित) द्वारा विधिवत हस्ताक्षर किया गया हो (यदि जमा नहीं किया गया हो) / Six copies of colour passport size photographs duly signed by the occupier (as defined under Rule 2 (O) of Ammonium Nitrate Rules, 2012) 'in front' by 'black color indelible ink' (if not submitted).

संलग्नक / Enclosures :

भवदीय / Yours faithfully,

(एस. के. भोले) (S. K. Bhale)

विस्फोटक नियंत्रक | Controller of Explosives

For Joint Chief Controller of Explosives

कृते संयुक्त मुख्य विस्फोटक नियंत्रक

For Jt. Chief Controller of Explosives

गुवाहाटी Guwahati

प्रतिलिपि प्रेषित / Copy Forwarded to:

I. District Magistrate, EAST JAINTIA HILLS (Meghalaya) for information

कृते संयुक्त मुख्य विस्फोटक नियंत्रक | For Joint Chief Controller of Explosives

गुवाहाटी | Guwahati

(स्टेटस, शुल्क, एवं अन्य विवरणों के बारे में अधिक जानकारी हेतु कृपया संगठन का वेबसाइट <http://peso.gov.in> देखें / For more information regarding status, fees and other details, please visit our web site <http://peso.gov.in>)

<http://10.0.50.11/IntExp/RNCoveringLetterANHindi.asp?LetterGeneratedYN=Y>

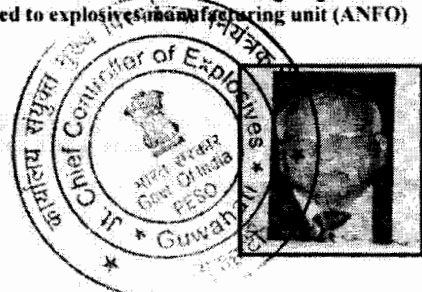

23-Mar-22

अनुज्ञप्ति प्ररूप P-3
(अमोनियम नाइट्रेट नियम, 2012 की अनुसूची 1 की क्रम संख्या-3 और नियम 35 देखें)

LICENCE FORM P-3
(See Sr.No.-3 of Schedule I and rule 35
of Ammonium Nitrate Rules, 2012)

विस्फोटक विनिर्माण इकाई (एनएफओ) से जुड़े गोदाम से, अमोनियम नाइट्रेट के उपयोग के लिए, रखने हेतु अनुज्ञप्ति
Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO)

अनुज्ञप्ति संख्या | Licence No. : A/EC/MG/P3/5(A271)
वार्षिक अनुज्ञप्ति शुल्क | Annual licence Fee Rs. 1000/-



अनुज्ञप्ति एतद्वारा जारी की जाती है :
Licence is hereby granted to :
M/s. Meghalaya Cements Ltd. (अधिष्ठाता : Ramesh Kumar Pareek)
Thangskai, East Jaintia Hills,
शहर | गांव - East Jaintia Hills
जिला- EAST JAINTIA HILLS, राज्य- Meghalaya, पिन कोड - 793210
Phone -, Email-, फैक्स-

- अनुज्ञप्तिधारी का स्तर Company
Status of licence holder: Company
- अनुज्ञप्ति केवल निम्नलिखित प्रयोजन हेतु वैध है : विस्फोटक विनिर्माण इकाई (एनएफओ) से जुड़े गोदाम से, अमोनियम नाइट्रेट के उपयोग के लिए, रखने हेतु अनुज्ञप्ति
Licence is valid only for the following purpose : Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO)
- अनुज्ञप्ति अमोनियम नाइट्रेट की निम्नलिखित मात्रा के लिए वैध है :
Licence is valid for the following quantity of Ammonium Nitrate:

नाम तथा विवरण Name and Description	किसी एक समय में मात्रा (कि.ग्रा.) Quantity at a time (Kg.)	किसी एक वित्तीय वर्ष में क्रय की जाने वाली अमोनियम नाइट्रेट की मात्रा (कि.ग्रा.) Quantity of Ammonium Nitrate to be purchased in a financial Year (Kg.)
Ammonium Nitrate (Solid)	40000	480000

- अनुज्ञप्ति परिसर निम्नलिखित आरेख(णों) के अनुरूप होगा
The licensed premises shall conform to the following drawing(s):
आरेखण संख्या | Drawing No. : A/EC/MG/P3/5 (A271) दिनांक | Dated : 13/06/2014
- अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित है :
The Licensed premises are situated at following address:
Survey No. Umpeh Area, शहर(गांव) | Town/Village : Village: Lumshnong
पुलिस स्टेशन | Police Station : Lumshaong जिला | District : EAST JAINTIA HILLS राज्य | State : Meghalaya
पिन कोड | PinCode : 793210 फोन | Phone : ईमेल | E-Mail : mines@topecm.in फैक्स | Fax :
- अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएँ उपलब्ध हैं :
The licensed premises consist of following facilities :
Consist of one store house.
- अनुज्ञप्ति, समय-समय पर यथा संशोधित विस्फोटक अधिनियम 1884, एवं उसके अधीन बनाए गए अमोनियम नाइट्रेट नियम, 2012 की शर्तें, अतिरिक्त शर्तें तथा निम्नलिखित उपबन्धों के अधीन जारी की जाती हैं
(i) उक्त क्रम संख्या 5 में उल्लिखित आरेखण (जिसमें स्थल, निर्माण एवं अन्य विवरण दर्शाए गए हैं)।
(ii) अनुज्ञप्ति जारी करने वाले प्राधिकारी द्वारा हस्ताक्षरित अनुज्ञप्ति की शर्तें एवं अतिरिक्त शर्तें।

The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Ammonium Nitrate Rules, 2012 framed there under and the conditions, additional conditions and Annexures.

- Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
- Conditions and Additional Conditions of this licence signed by the license issuing authority.



(A 271)

8. यह अनुज्ञप्ति 31 मार्च 2019 तक वैध रहेगी।
This licence shall remain valid till 31st day of March 2019

यह अनुज्ञप्ति विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए अमोनियम नाइट्रेट नियम, 2012 या इस अनुज्ञप्ति की किसी शर्त का उल्लंघन करने पर या यदि अनुज्ञप्त परिसर, आरेखण और उससे संलग्न उपाबद्ध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलम्बित या प्रतिसंहत की जा सकती है।

This licence is liable to be suspended or revoked for any violation of the Explosives Act 1884 or Ammonium Nitrate Rules, 2012 framed there under or the conditions of this license if the licensed premises are not found conforming to the description shown in the plans and annexure attached hereto.

दिनांक 1 Date: 13/06/2014

Sd/-
संयुक्त मुख्य विस्फोटक नियंत्रक
Joint Chief Controller of Explosives
पूर्वांचल, कोलकाता | East Circle office, Kolkata

Amendments :

- Change in Authorized Signatory/Occupier/Partners/Directors dated : 26/08/2015
- Change in Authorized Signatory/Occupier/Partners/Directors dated : 04/03/2019

अनुज्ञप्ति नवीकरण के लिए पृष्ठांकन : Endorsement for renewal of licence:

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर Signature of licensing authority
23/03/2022	31/03/2027	Jt. Chief Controller of Explosives, Guwahati कृत संयुक्त मुख्य विस्फोटक नियंत्रक

सांविधिक चेतावनी: अमोनियम नाइट्रेट कानून का दुरुपयोग एक गंभीर अपराध है।
Statutory Warning : Misuse of Ammonium Nitrate shall constitute serious criminal offence under the law.

Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.





31.05 Ha South Khliehji Mines

MEGHALAYA CEMENTS LIMITED

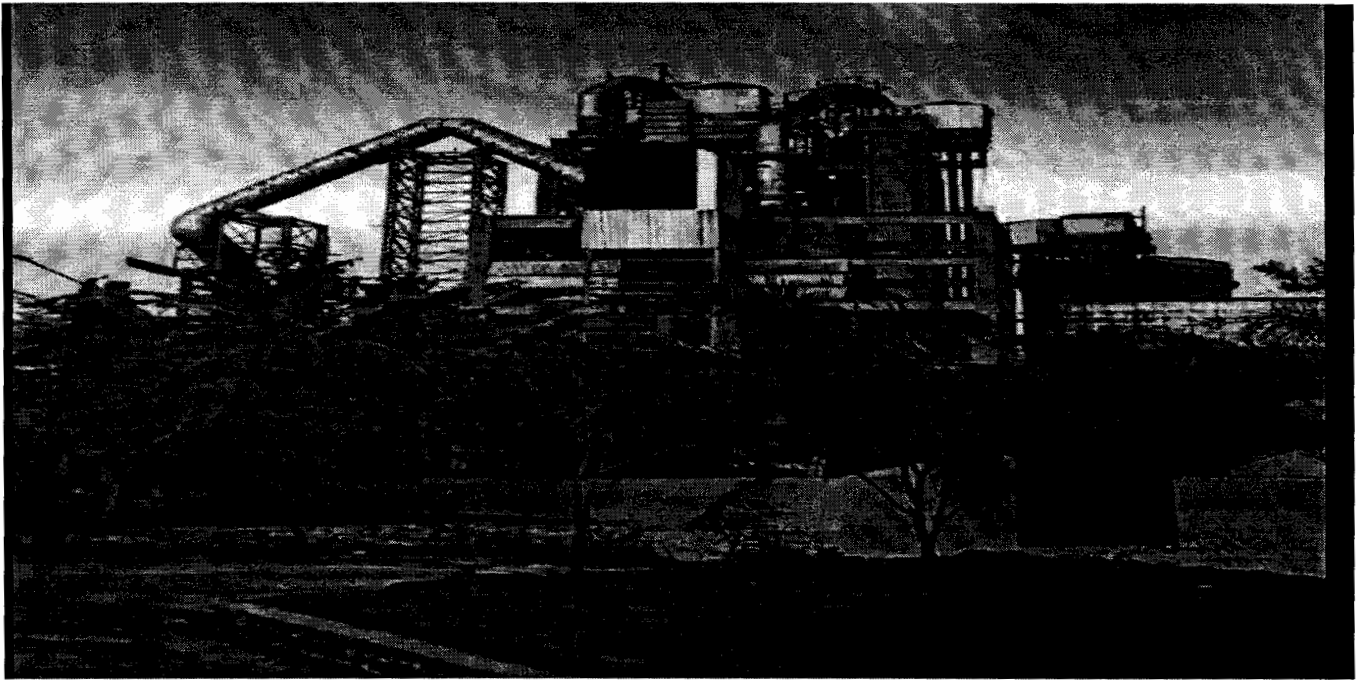
EAST JAINTIA HILLS, MEGHALAYA

Corporate social responsibility

Report for the period of October'22 to March'23







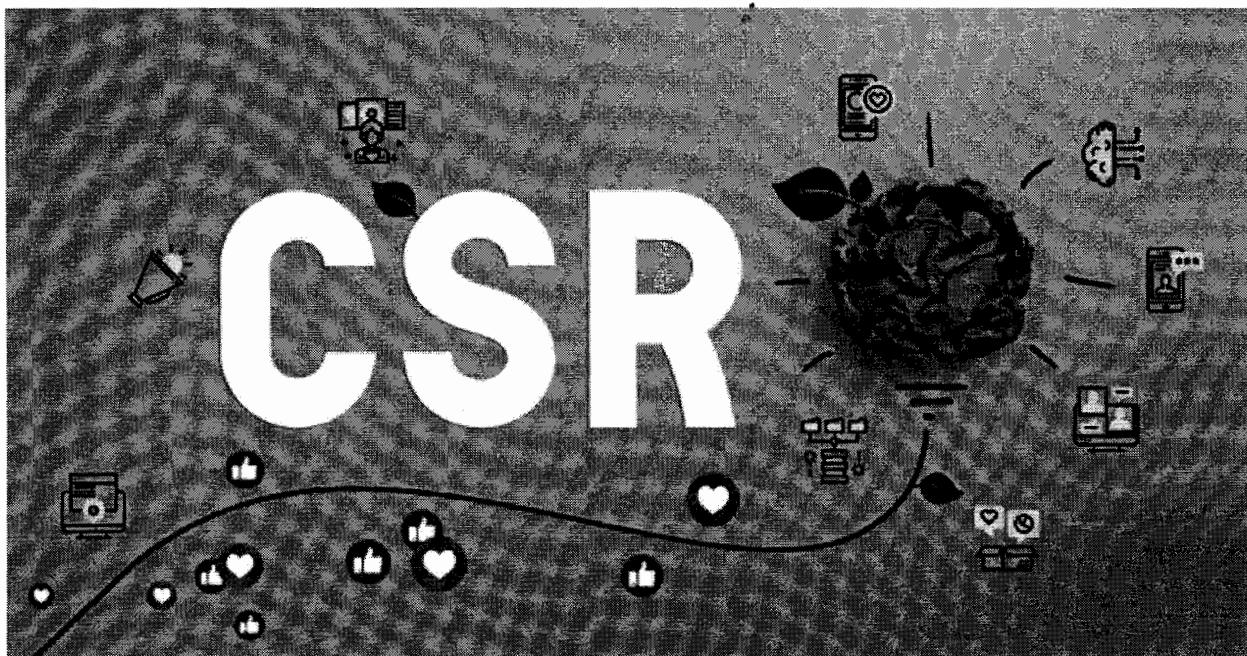
Reference of Environment Clearance

Letter No. - SEIAA/ (PR-19/2012) PT/PR-05/2015/444 dated: 9th Jan 2017.

Environment Condition

“As per the Companies Act, 2013 and the CSR Rules, 2% of average net profit of last three years shall be made available by the PP for the socio economic development of the neighborhood habitats. This shall be properly planned by the PP with the help of expert institutes and implemented through registered Agency as per the CSR Rules. Compliance report shall be submitted to the SEIAA, Meghalaya, the NE Regional Office of the MoEF & CC, and Shillong on a six monthly basis.”





Corporate Social Responsibilities

Corporate social responsibility (CSR) is a self-regulating business model that helps a company be socially accountable to itself, its stakeholders, and the public. By practicing corporate social responsibility, also called corporate citizenship, companies can be conscious of the kind of impact they are having on all aspects of society, including economic, social, and environmental.

To engage in CSR means that, in the ordinary course of business, a company is operating in ways that enhances society and the environment instead of contributing negatively to them.

Key Takeaways:-

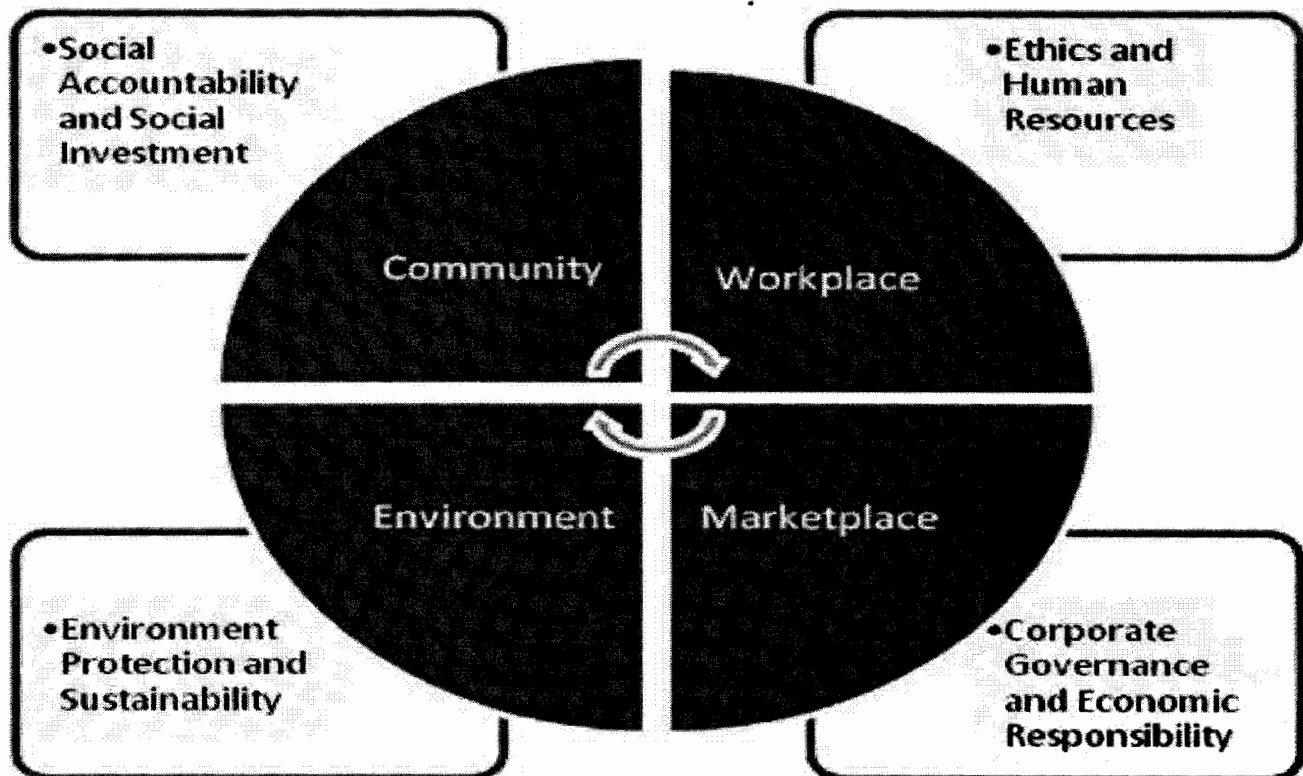
- Corporate social responsibility is a business model by which companies make a concerted effort to operate in ways that enhance rather than degrade society and the environment.
- CSR helps both improve various aspects of society as well as promote a positive brand image of companies.
- CSR helps both improve various aspects of society as well as promote a positive brand image of companies.

- CSRs are often broken into four categories: environmental impacts, ethical responsibility, philanthropic endeavors, and financial responsibilities.

Benefits of Corporate Social Responsibility

- As important as CSR is for the community, it is equally valuable for a company. CSR activities can help forge a stronger bond between employees and corporations, boost morale, and aid both employees and employers in feeling more connected to the world around them. Aside from the positive impacts to the planet, here are some additional reasons businesses pursue corporate social responsibility.
- ISO 26000 clarifies what social responsibility is and helps organizations translate CSR principles into practical actions. The standard is aimed at all types of organizations, regardless of their activity, size, or location. And because many key stakeholders from around the world contributed to developing ISO 26000, this standard represents an international consensus.





Role of Meghalaya Cements Limited towards Corporate Social Responsibilities

Meghalaya Cements Limited is contributing on account of Social Accountability and Social Investment, Ethics and Human Resources, Environment Protection and Sustainability and Corporate Governance and Economic Responsibility. In the period of October 2022 to March 2023 Meghalaya Cements Limited has spent Rs. 44.91 Lacs in different activities.

Expenditure Incurred for Socio-Economic Development under CSR for the period of October 2022 to March 2023:-

SL.NO.	HEADING	AMOUNT (In Rs.)
1	Emphasis on Education	79,500.00
2	Sports Activity	0.00
3	Encouraging/Felicitation program for Students.	0.00
4	Polio Immunization Camps, family planning, etc.	484,274.00
5	Infrastructure development of Hospitals	21,000.00

	/ Schools	
6	Cement Distribution Programme.	2,926,925.00
7	Plant Distribution programme	10,596.00
8	Donation to Churches, Road & House Repairing etc.	84,000.00
9	Community Feast	0.00
10	Drinking water supplying scheme.	193,153.00
11	Village development funds.	692,500.00
12	Corona Pandemic	00.00
Total		4,491,948.00

1. Emphasis on Education

The level at which teachers place importance on meeting the educational goals of all students. Education provides stability in life, and it's something that no one can ever take away from you. By being well-educated and holding a college degree, you increase your chances for better career opportunities and open up new doors for yourself. For That Meghalaya Cements Limited has sponsored a well trained Teacher to “**Chiehruphi Higher Secondary School**” to meet the educational goals of all students. The deputed professional teacher who teaches students based on national curriculum guidelines within their specialist subject areas. Their duties include assigning homework, grading tests, documenting progress and keeping up with parent communication. The Monthly salary of the Professional Teacher has paid by the Company. The amount of Rs. 79500 has paid for the Teacher as monthly salary.

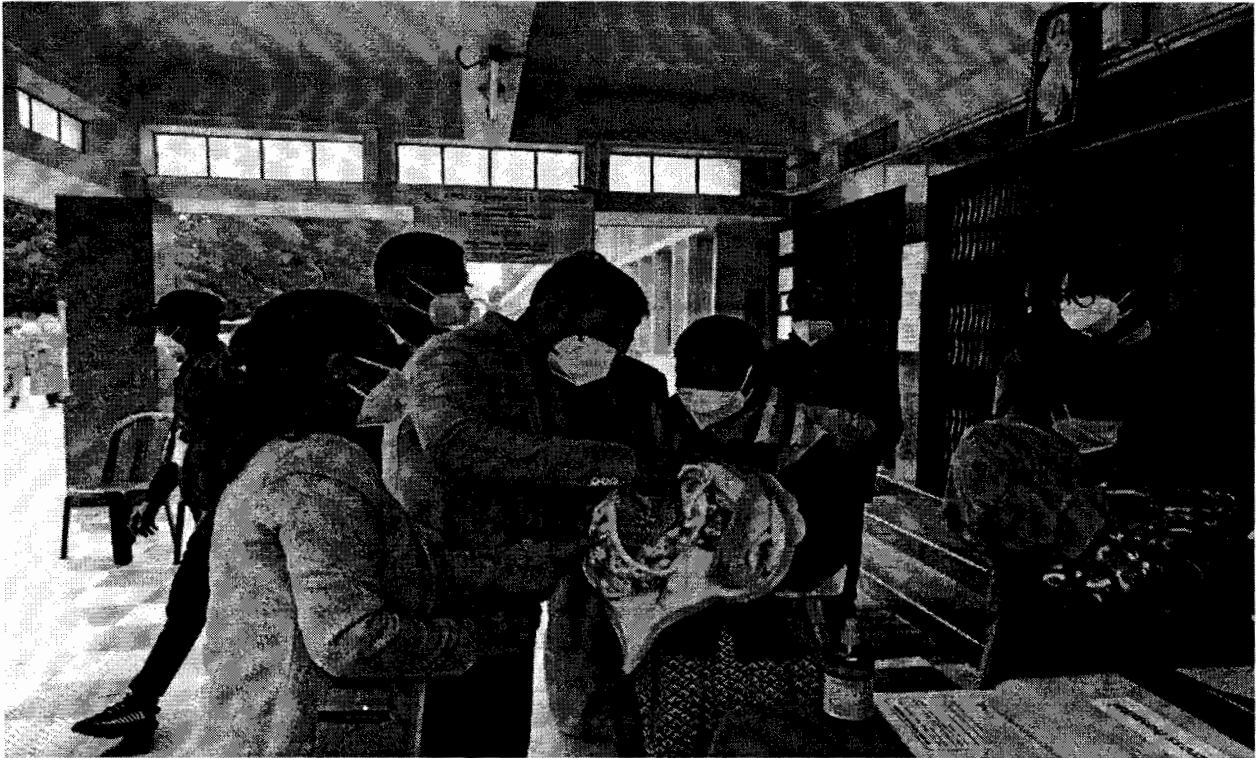




2. Polio Immunization Camps, Family planning, etc.:-

The Pulse Polio Initiative was started with an objective of achieving hundred per cent coverage under Oral Polio Vaccine. It aimed to immunize children through improved social mobilization, plan mop-up operations in areas where poliovirus has almost disappeared and maintain high level of morale among the public. Natural Family Planning (NFP) relies on the ability to track ovulation in order to prevent pregnancy. These methods predict fertile and unfertile days to identify when to avoid unprotected sex and are only used by a small fraction of women. In View of National Health Mission, Company has deputed skilled Nurses for taking care of Child and Woman. Free medicine and Vaccine has distributed among the villagers by the company on periodic. The

Salary of Nurses has provided by the company and Rs. 484'274 has been spent for the period of October-2022 to March-2023.



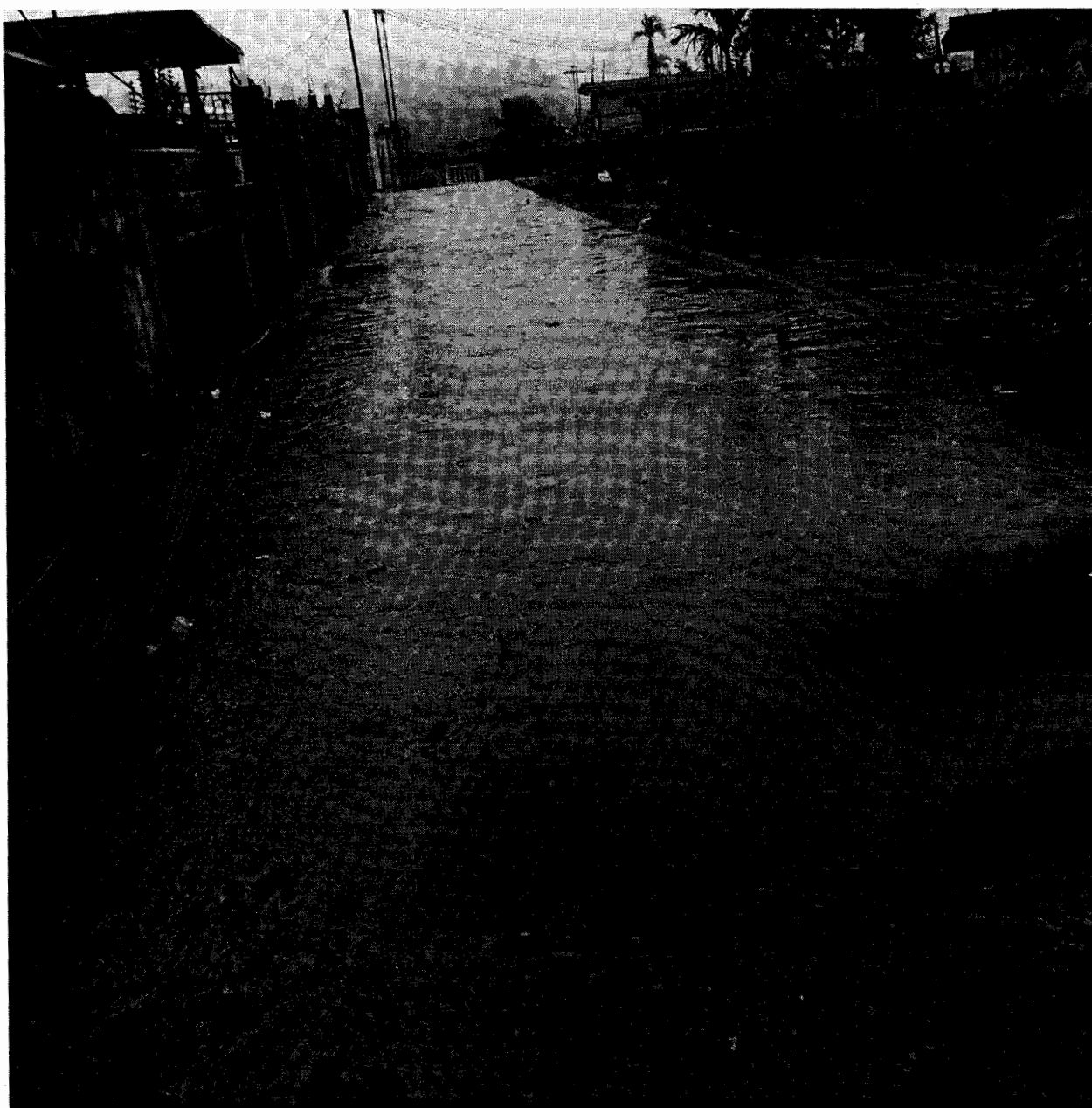
3. Infrastructure development of Hospitals/Schools:-

School infrastructure is what influences student learning so that it can run optimally. The improvements focused on stimulation, individualization, and naturalness. Infrastructure as a support system (such as schools, hospital) develops the quality of human capital by imparting quality and technical education and health facilities. This raises the standard and quality of living and helps the economy to eradicate major economic problems like poverty, unemployment and inequality. Meghalaya Cements has contributing major roles towards the developments of Infrastructure. The Company has spent Rs. 21000 for Purchasing of Heath checkup kits for routine check-up of Villagers.



4. Cement Distribution Programme:-

Cement is important material for development of a society. Meghalaya Cements limited has distributed Cement to the Villagers on Cheap rate for development of their society roads, drains, House, Church, Schools and other Infrastructures. Company has distributed Rs. 2,926,925 in terms of cements toward them for development of their available infrastructures on low subsidized rate.



5. Plant (Species) Distribution Programme.

Environmental Benefits: - Trees offer many environmental benefits. Trees reduce the urban heat island effect through evaporative cooling and reducing the amount of sunlight that reaches parking lots and buildings. This is especially true in areas with large impervious surfaces, such as parking lots of stores and industrial complexes. Trees improve our air quality by filtering harmful dust and pollutants such as ozone, carbon monoxide, and sulfur dioxide from the air we breathe. Trees give off oxygen that we need to breathe. Trees reduce the amount of storm water runoff, which reduces erosion and pollution in our waterways and may reduce the effects of flooding. Many species of wildlife depend on trees for habitat. Trees provide food, protection, and homes for many birds and mammals. In view of the above Meghalaya Cements Limited has distributed Local Species worth of Rs. 10,596 in Plantation drive.





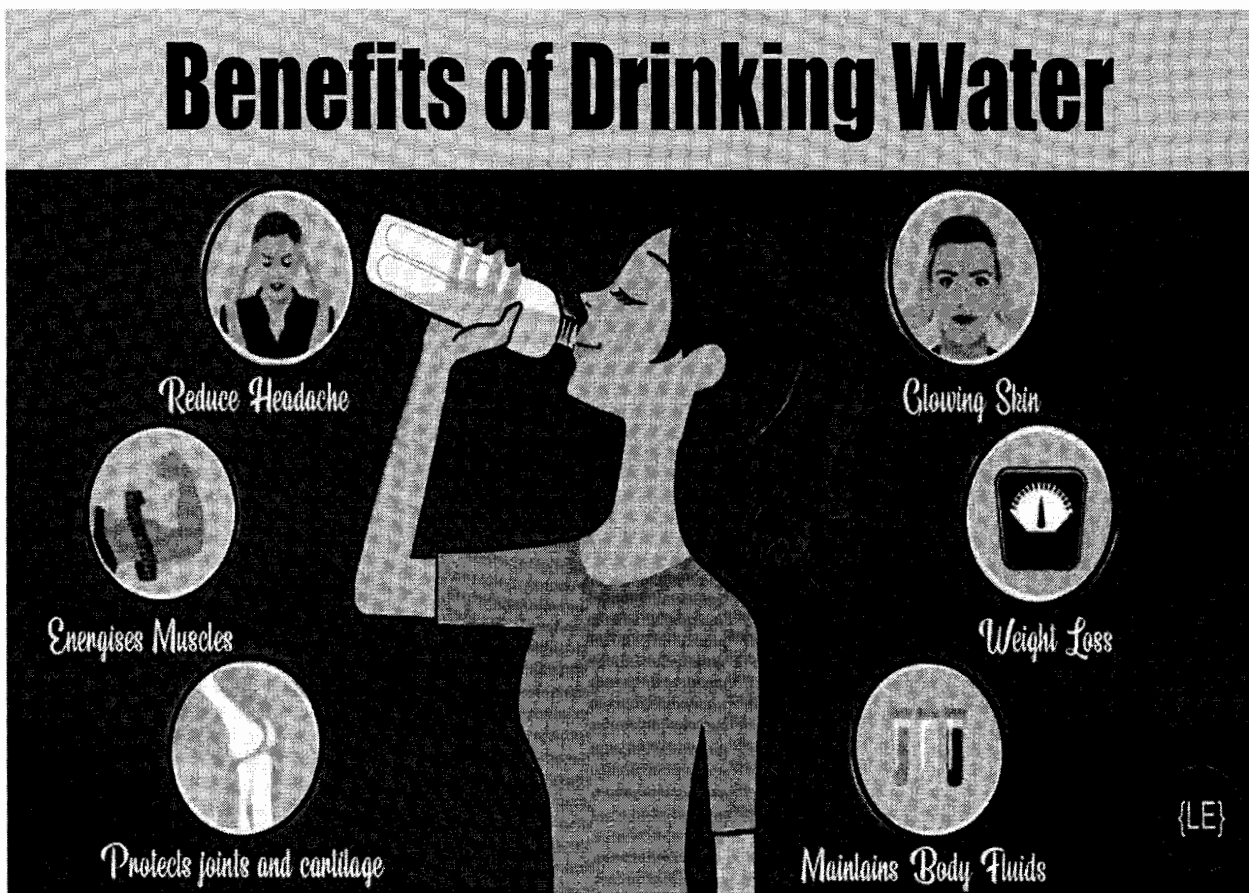
6. Donation to Churches, Road & House / Community Center Repairing etc.

Villages Infrastructure like Churches, Roads, House and Cimmunity Centers are very essential requirements for the Villagers. Company has contributed Rs. 84000 for the repairing of Churches, Roads, House and Community Center in the period of October-2022 to March-2023. Also Company has contributed for Funeral Programme for the villagers.



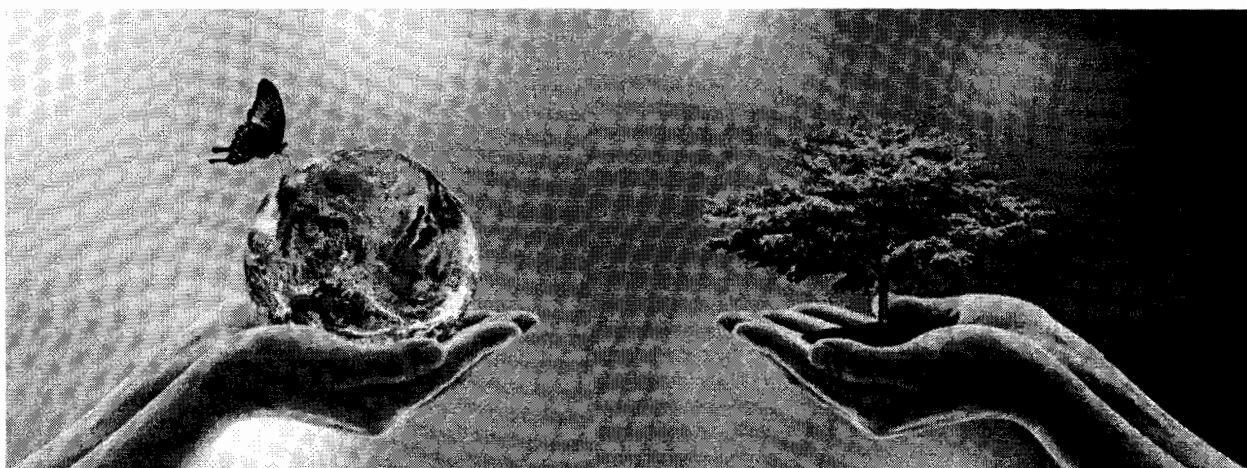
7. Drinking water supplying scheme:-

Getting enough water every day is important for your health. Drinking water can prevent dehydration, a condition that can cause unclear thinking, result in mood change, cause your body to overheat, and lead to constipation and kidney stones. Meghalaya Cements Limited has distributed drinking water among the villagers on daily basis and spent Rs. 193,153 for distribution of Drinking Water.



8. Village Development Funds

An action plan for the economic and social upliftment of Villages and It aims at improving the quality of life of people living in Villages, Meghalaya Cements Limited has contributing major role under CSR for Villagers. In the period of October-2022 to March-2023, Company has spent Rs. 692,500 in terms of Free Cement distribution & subsidized cement issued to the villages for Village Road, Church, school development work (Chiehruphi, Thangskai & Whaijer village).



□□□□



Meghalaya cements limited

Thangskai, Meghalaya

DOWNSTREAM WATER ANALYSIS REPORT FOR THE YEAR 2022-23 (Southern side of reject dump)

Name of the Mine:- SOUTH KHEIHURI LIMESTONE MINES

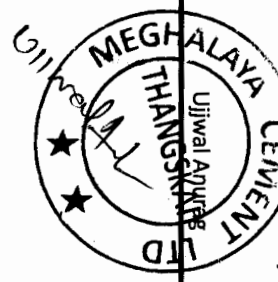
Date:-24.03.2023

Sl. No.	Parameters	Obtained Values in						Average	Permissible Limit
		Oct'2022	Nov'2022	Dec'2022	Jan'2023	Feb'2023	Mar'2023		
1	pH	7.3	7.2	7.4	7.1	7.2	7.4	7.27	6.5 - 8.5
2	Dissolved Oxygen (mg/lit)	12.47	13.59	11.67	11.42	12.58	11.89	12.27	-
3	Total Dissolve Solids (mg/Lit)	198	157	192	169	173	158	174.50	<500
4	Conductivity (mg/Lit)	174	168	139	171	156	162	161.67	-
5	Total Hardness (mg/Lit)	227	240	238	216	228	216	227.50	<300
6	Calcium Hardness (mg/Lit)	153	171	159	164	161	154	160.33	<200
7	Magnesium Hardness (mg/Lit)	74	69	79	52	67	62	67.17	<100
8	Alkalinity (mg/Lit)	88	63	79	71	67	76	74.00	<200

Prepared By

Arti Singh
Arti Singh

Checked & Verified By



Meghalaya cements limited

Thangskai, Meghalaya

UPSTREAM WATER ANALYSIS REPORT FOR THE YEAR 2022-23 (Near toilet area)

Name of the Mine:- SOUTH KHLEHURI LIMESTONE MINES

Date:-24.03.2023

Sl. No.	Parameters	Obtained Values in						Average	Permissible Limit
		Oct'2022	Nov'2022	Dec'2022	Jan'2023	Feb'2023	Mar'2023		
1	pH	7.1	7.3	7.2	7.4	7.1	7.3	7.23	6.5-8.5
2	Dissolved Oxygen (mg/lit)	13.5	12.3	12.4	12.9	11.8	12.6	12.58	-
3	Total Dissolve Solids (mg/Lit)	155	169	174	146	153	167	160.67	<500
4	Conductivity (mg/Lit)	163	156	174	137	148	153	155.17	-
5	Total Hardness (mg/Lit)	238	220	247	230	220	227	230.33	<300
6	Calcium Hardness (mg/Lit)	157	149	173	166	151	166	160.33	<200
7	Magnesium Hardness (mg/Lit)	81	71	74	64	69	61	70.00	<100
8	Alkalinity (mg/Lit)	72	65	71	69	59	63	66.50	<200

Prepared By

Arti Singh



Report No.: ENV/MCL/22-23/SW-03/01
Date : 10/04/2023

Order No.: 47000025824
Date : 23/03/2023

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: MCL/22-23/SW-3103/01
Collected On : 31-03-2023

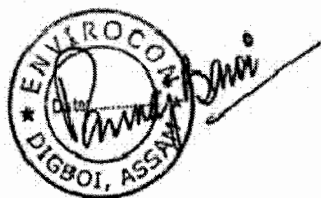
Sample Source : Um-Lunar River Upstream
Received On : 03-04-2023

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	6	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	22.6	--	--
4.	pH Value	6.68	6.5 - 8.5	No Relaxation
5.	Suspended Solids	29	--	--
6.	Total Dissolved Solids, mg/l, Max.	126	500	2000
7.	Conductivity, μ S/cm	193	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.2	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	29	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	6.4	200	600
14.	Calcium (as Ca), mg/l, Max.	17	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	1.8	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	7.2	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON



NOTE:

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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/MCL/22-23/SW-03/02

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/22-23/SW-3103/02

Sample Source : Um-Lunar River Downstream

Sample Type : Surface Water

Collected On : 31-03-2023

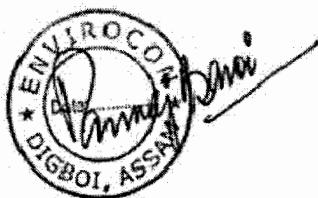
Received On : 03-04-2023

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* In the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	4	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	23.6	--	--
4.	pH Value	6.64	6.5 - 8.5	No Relaxation
5.	Suspended Solids	33	--	--
6.	Total Dissolved Solids, mg/l, Max.	126	500	2000
7.	Conductivity, μ S/cm	205	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.3	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	26	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	6.2	200	600
14.	Calcium (as Ca), mg/l, Max.	19	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max.	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	1.6	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	6.7	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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.

MEGHALAYA CEMENTS LIMITED

Annex-XII

Six Monthly Ambient Air Quality Survey Report, South Khliehneri Limestone Mine (31.05 Ha), 2022-2023

Pollutants	Location	Oct' 2022	Nov' 2022	Dec' 2022	Jan' 2023	Feb' 2023	Mar' 2023	Avg.	Permissible Limits for Rural Areas (By MSPCB 24 hrs Monitoring)
Particulate Matters PM10 ($\mu\text{g}/\text{m}^3$)	A1. North -East (Near Soil Dump)	32.59	34.68	36.45	32.48	35.42	36.42	34.67	100 $\mu\text{g}/\text{m}^3$
	A2. North - West(Near Haul Road)	37.42	41.72	43.91	41.52	40.02	38.23	40.47	100 $\mu\text{g}/\text{m}^3$
	A3. Southern side (Near Lease Boundary)	29.81	30.86	33.89	37.98	38.91	32.26	33.95	100 $\mu\text{g}/\text{m}^3$
Particulate Matters PM2.5 ($\mu\text{g}/\text{m}^3$)	A1. North -East (Near Soil Dump)	22.48	21.46	23.83	26.25	24.73	24.81	23.93	60 $\mu\text{g}/\text{m}^3$
	A2. North - West(Near Haul Road)	23.19	24.34	26.47	21.75	24.37	26.29	24.40	60 $\mu\text{g}/\text{m}^3$
	A3. Southern side (Near Lease Boundary)	16.86	18.20	20.86	25.37	28.99	27.88	23.03	60 $\mu\text{g}/\text{m}^3$

Prepared By

(Arti Singh)

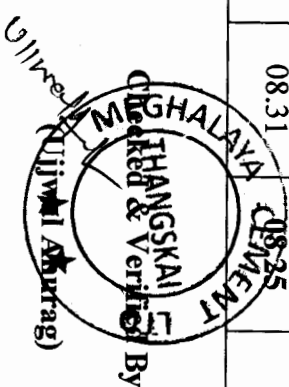


MEGHALAYA CEMENTS LIMITED

Six Monthly Ambient Air Quality Survey Report,
South Khliehieri Limestone Mine (31.05 Ha), 2022-2023

Pollutants	Location	Oct' 2022	Nov' 2022	Dec' 2022	Jan' 2023	Feb' 2023	Mar' 2023	Avg.	Permissible Limits for Rural Areas (By MSPCB 24 hrs Monitoring)
SO ₂	A1. North -East (Near Soil Dump)	14.76	13.69	12.61	14.33	15.23	14.37	14.17	80 µg/m ³
	A2. North - West(Near Haul Road)	12.58	16.58	15.28	16.82	19.52	10.13	15.15	80 µg/m ³
	A3.Southern side (Near Lease Boundary)	08.41	09.34	10.35	14.77	17.17	13.48	12.25	80 µg/m ³
NOx	A1. North -East (Near Soil Dump)	12.93	11.06	09.24	08.27	12.71	09.15	10.56	80 µg/m ³
	A2. North - West(Near Haul Road)	07.64	10.44	12.44	10.55	12.86	08.67	10.43	80 µg/m ³
	A3.Southern side (Near Lease Boundary)	05.67	06.94	08.18	10.03	10.39	08.31	08.25	80 µg/m ³

Prepared By


 (Arti Singh)


MEGHALAYA CEMENTS LIMITED

**Six Monthly Fugitive Emission Report,
South Khliehleri Limestone Mine (31.05 Ha), 2022-2023**

Location	Oct' 2022	Nov' 2022	Dec' 2022	Jan' 2023	Feb' 2023	Mar' 2023	Avg.	Permissible Limits for Rural Areas (By MSPCB 24 hrs Monitoring)
Drilling Area	1642	1885	1652	1555	1385	1771	1648.33	5000 $\mu\text{g}/\text{m}^3$
Blasting Point	1581	2276	1732	2117	2209	2133	2008.00	5000 $\mu\text{g}/\text{m}^3$
Loading Point	2126	1903	1616	1863	1717	2220	1907.50	5000 $\mu\text{g}/\text{m}^3$
Unloading Point	1734	1685	1477	1867	1950	1385	1683.00	5000 $\mu\text{g}/\text{m}^3$

Prepared By
Arti Singh
(Arti Singh)



South Khliehjar Limestone Mine
Annual Afforestation Report, 2022-23

1	Name of the Mine	South Khliehjar Limestone Mine
2	Owner's Name	Ramesh Kumar Pareek
3	District / State	East Jaintia Hills/Meghalaya
4	Mineral Worked	Limestone
5	Category of the Mine	A

Afforested during the quarter ENDING DECEMBER (1st Oct to 31st December) 2022)

No. of trees planted		Area covered (in Ha.)		No. of trees survived		Survival rate	
WML	OML	WML	OML	WML	OML	WML	OML
1	2	3	4	5	6	7	8
Nil	Nil	Nil	N/A	N/A	N/A	71.57%	N/A

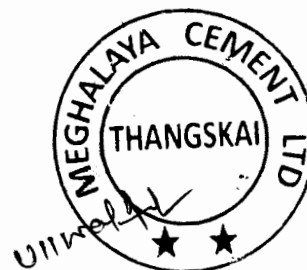
Afforested during the quarter ENDING MARCH (1st January to 31st March) 2023)

No. of trees planted		Area covered (in Ha.)		No. of trees survived		Survival rate	
WML	OML	WML	OML	WML	OML	WML	OML
1	2	3	4	5	6	7	8
60	Nil	0.0430	N/A	41	N/A	68.33%	N/A

Cumulative Afforested as on 31.03.2023

No. of trees planted		Area covered (in Ha.)		No. of trees survived		Survival rate	
WML	OML	WML	OML	WML	OML	WML	OML
1	2	3	4	5	6	7	8
4166	Nil	1.9591	N/A	3163	N/A	75.92	N/A

Note: - WML - Within Mining Lease; OML - Outside Mining Lease



Report No.: ENV/MCL/22-23/WW-11/01

Date : 07/12/2022

Order No.: 4700024514

Date : 17/11/2022

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2022/ETP-3011/01

Collected On : 30-11-2022

Sample Source : ETP Outlet (MCL)

Received On : 02-12-2022

Sample Type : ETP Treated Water

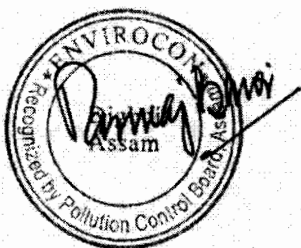
Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
1	pH	6.82	6.5 - 9.0
2	Temperature, °C	25.4	shall not exceed 5°C above the receiving water temperature*
3	Total Suspended Solids (as TSS), mg/l	31	<100
4	Biochemical Oxygen Demand (as BOD), mg/l	19	30
5	Chemical Oxygen Demand (as COD), mg/l	68	250*
6	Oil & Grease, mg/l	<4.0	10.0*
7	Total Residual Chlorine, mg/l	<0.01	1.0*
8	Ammonical Nitrogen (as N), mg/l	12	50*
9	Total Kjeldahl Nitrogen (as NH ₃), mg/l	26	100*
10	Free Ammonia (as NH ₃), mg/l	<0.01	5.0*
11	Fecal Coliform (as FC), MPN/100 ml	822	<1000

*Limit as per G.S.R. 801(E), 31.12.1993

Analysis Protocol: IS 3025

MPN: Most Probable Number



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/MCL/22-23/WW-03/01

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

 Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya
WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/22-23/ETP-3103/01

Sample Source : ETP Outlet (MCL)

Sample Type : ETP Treated Water

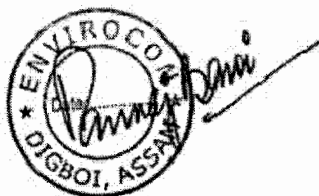
Collected On : 31-03-2023

Received On : 03-04-2023

Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 422(E), 19.05.1993]
1	Ph	6.86	6.5 – 9.0
2	Temperature, °C	25.4	shall not exceed 5°C above the receiving water temperature*
3	Total Suspended Solids (as TSS), mg/l	33	<100
4	Biochemical Oxygen Demand (as BOD), mg/l	21	30
5	Chemical Oxygen Demand (as COD), mg/l	73	250*
6	Oil & Grease, mg/l	<4.0	10.0*
7	Total Residual Chlorine, mg/l	<0.01	1.0*
8	Ammonical Nitrogen (as N), mg/l	16	50*
9	Total Kjeldahl Nitrogen (as NH ₃), mg/l	29	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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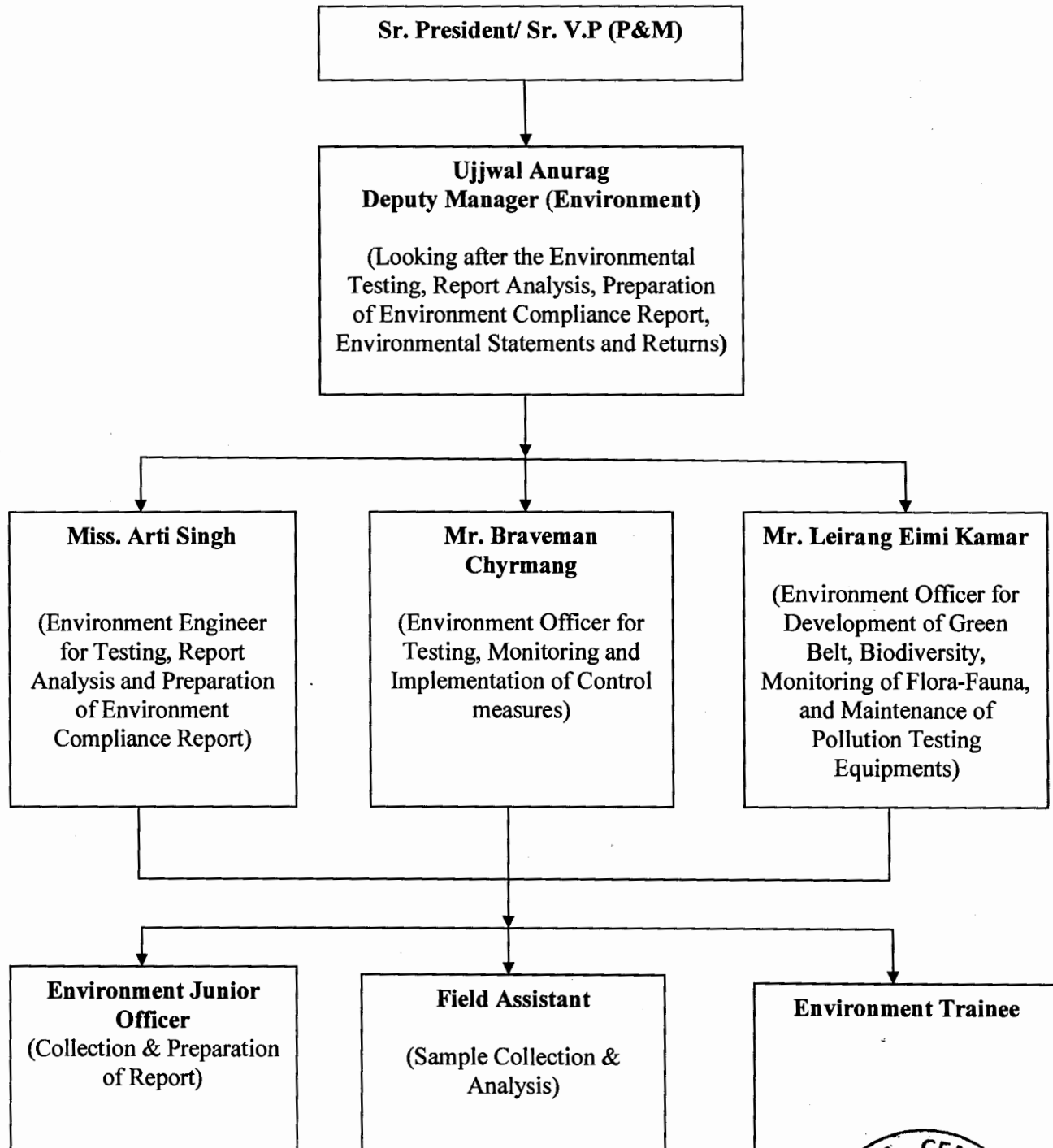
Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Meghalaya Cements Ltd.

Vill: Thangskai, P.O. Lumshnong, East Jaintia Hills, Meghalaya-793210

Environment Management Cell DetailsDept: Environment

Doc. No: MCL/IMS /PA/MR/DS



Ujjwal

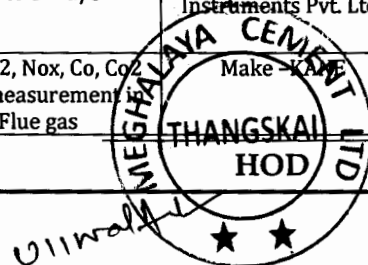
Meghalaya Cements Ltd.

Vill: Thangskai, P.O. Lumshnong, East Jaintia Hills, Meghalaya-793210

Environment Management Cell DetailsDept: Environment

Doc. No: MCL/IMS /PA/MR/DS

Sl. No.	Equipments Name	Model	Range	Make
1	B.O.D Incubator -1	BTI - 06 / 73514, Bio Technique India	Site -6 Cu.Ft, Temp. Range - 5° to 60°C., Accuracy - ± 0.5°C.	Innovative Instruments & Controls CLP,
2	Stack Sampler	VSS - 1 - PLS / 01- DTH-2016 / Vayubodhan Envirotech Instrumentation	0 to 60 LPM & 0-to 3 LPM	Envirotech Instruments Pvt. Ltd
3	Stack Sampler	APM -620 / 797- DTI- 05 / Vayubodhan Envirotech Instrumentation	0 to 60 LPM & 0-to 3 LPM	Envirotech Instruments Pvt. Ltd
4	Stack Velocity Monitor	APM -602 / 835 DTJ - 05 / Vayubodhan Envirotech Instrumentation	0 to 60 LPM & 0-to 3 LPM	Envirotech Instruments Pvt. Ltd
5	Fine Particulate Sampler (03 Nos.)	APM-550 / 583 - DTK-2010, 586-DTK- 2010, 563-DTK-2010 / Envirotech Instrumentation	Range of flow Rate - 16.54-16.50, 16.56- 16.48, 16.54-16.52	Envirotech Instruments Pvt. Ltd.
6	Gaseous Pollutant Sampler (02 Nos.)	APM-433 / 1.146 - DTK-2010, 2.150- DTK-2010 / Envirotech Instrumentation	Range -0 to 3 LPL	Envirotech Instruments Pvt. Ltd.
			Range -0 to 10 Micro meter in Diameter.	
7	High Volume Sampler (03 Nos.)	APM-430 / 1.640- DTL-05, 2.641-DTL- 05, 3.642-DTL-05 / Vayubodhan Envirotech Instrumentation	Range of Flow rate - 1.1 to 1.7 Cu M ³ /mn	Envirotech Instruments Pvt. Ltd.
8	COD- Digestion	Cat No. CE-HC-011 / 11007 / Commercial	Up to 15°C., Least Count-1°C	Commercial
9	Hot Air Oven	Internal ID- MCL/Env/HAO-1	Up to 250°C., Least Count-0.1°C	Commercial
10	Digital Balance	/ 4114676 / Cy.304 CE	0 to 220 grms	Indian Calibration Services
11	S Type Pitot Tube	For Flow measurement	03 to 30 m/s	Envirotech Instruments Pvt. Ltd.
12	L Type Pitot Tube	For Flow measurement	03 to 30 m/s	Envirotech Instruments Pvt. Ltd.
13	Flue Gas Analyzer	Model No. 054218002	For SO ₂ , Nox, Co, Co ₂ & O ₂ measurement in Flue gas	Make - KAM THANGSKAI HOD



Meghalaya Cements Ltd.

Vill: Thangskai, P.O. Lumshnong, East Jaintia Hills, Meghalaya-793210

Environment Management Cell DetailsDept: Environment

Doc. No: MCL/IMS /PA/MR/DS

14	Respirable dust samplers	Serial No. 640-DTL-2005, . 641-DTL-2005, . 642-DTL-2005	For Measurement of PM 10 & PM 2.5	Make- Envirotech Inst. (P) Ltd.
15	Automatic station for recording of micrometeorological parameter	DT-	For Rain fall, temperature, RH & wind speed measurement	AIMIL LTD
16	Sound pressure level meter	Model No. 05D101013	For noise level monitoring	Make- Raytheon Tech.
17	Stack monitoring kits	01-DTH-2016	For Measurement of Dust emission form Stacks	Make- Envirotech Inst. (P) Ltd.
19	Automatic station for recording of Ambient Quality Monitoring	Installed near gate no. 03	Form real time monitoring of Ambient air quality	Supplied Swan Environmental
20	Automatic station for recording of Stack Emission Monitoring	For RABH, Cooler ESP, Cement Mills and CPP stack emission monitoring	Form real time monitoring of stack emission	Supplied by Glens
21	Portable Air Quality Analyzer	For Real time Ambient air quality monitoring	Form real time monitoring of stack emission	Supplied by M/s. Swan Environmental
23	Temperature Gun	Model No. IRX-63	Range (-) 50°C to 1850°C	Make- HTC
24	pH Meter	Sl. No, 361/7928	Range 0 to 14	Systronics
25	Nephlo Meter	Sl. No, 1307138	Range 0 to 200 NTU	
26	Conductivity	Sl. No. S/6117-01-17		
27	CHROMIUM VI CHEMICAL TEST KIT	-----	Chromium, Hexavalent Range: 0.0 to 1.0 mg/L Chromium, Hexavalent Resolution: 02. mg/L	HANNA EQUIPMENTS (INDIA) PVT. LTD.



M/s MEGHALAYA CEMENTS LIMITED

Vill- Thangskai, P.O - Lumshnong
East Jaintia Hills, Meghalaya-793210

Expenditure incurred against Enviromental Protection Measures of South Khliehjar during the year 2020-21 (from October ,2022 to March,2023)			
1	2	3	4
Sl no	Head	Subhead	Total Expenditure incurred (in lakh)
1	Plantation	Pre plantation cost to develop the area for ready for plantation i. Dumping & dozing of soil to make the area plain ii. Spreading of Topsoil Sappling & Plantation cost Maintenance cost i. Manuring ii. Watering iii. Watching iv. Fencing	4.77
2	Dust suppression	Cost against Water sprinkler used in haul road, loading & unloading point	14.82
3	Preparation of Retaining wall, Checkdam, Siltation Tanks and Garland drains	Maintenance of Siltation Tanks Maintenance of Retaing wall Maintenance of Garland drains	0.72
5	PPE supply to mine workers	Nose Mask Ear Muffs Safety Shoe Safety Helmet Safety Goggles Safety Hand Gloves Reflective Jacket	0.54
6	Water Treatment	Captial investment for Water Treatment Plant	0.6
		Recurring cost for water treatment	
7		Chemical consumption for treatment of effluents (lime, bleaching powder, alum etc.)	
		Power cost	
		Manpower cost	
8	Dump Compaction	Compection of dumps by compactor	1.41
		Total (in Lac)	22.86





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



Ref: - MCL/Env/MsPCB/2023-2024/10

Date: - 19/06/2023

To,
The Member Secretary,
Meghalaya State Pollution Control Board,
'ARDEN' LUMPYNGGAD
Shillong.

Subject: Submission of Form 'V' of 31.05 Ha. South Khliehji lime stone mine for the financial year 2022 - 2023.

Dear Sir,

We are herewith submitting the Annual Environmental Statement of 31.05 Ha. South Khliehji Limestone Mine for the financial year 2022-2023.

Thanking You,

Yours faithfully,

For Meghalaya Cements Limited

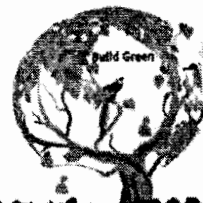
R.K. Pareek
R.K. Pareek
(Sr. President)



Sales & Marketing Office:
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel.: 0361 2345421/22/23, Fax: 0361 2345419
E-mail: guwahati@topcem.in
Web: www.topcem.in

Kolkata: Page 1 of 4
BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel.: 033 2334 0686 / 0004
Fax: 033 2334 0505
E-mail: kolkata@topcem.in

Registered Office:
Village: Thangskai, P.O. & P.S. Lumshong
District: East Jaintia Hills, Meghalaya, PIN: 793210
Tel.: 03655 278324 / 363 / 364
Fax: 03655 278327
E-mail: meghalaya@topcem.in



HELPLINE NO : 18001233666

ENVIRONMENT PROTECTION RULES 1986

[FORM-V]

(See rule 14)

Environmental Audit report for the period

[From 01-04-2022 to 31-03-2023]

PART - A

(i) Name and address of the owner/occupier of the industry, operation or process:-

Shri R.K. Pareek
M/s Meghalaya Cements Limited,
Vill: - Thangskai,
P.O: - Lumshnong
Meghalaya, Pin-793210

(ii) Industry category: - South Khliehjar Lime Stone Mine - 31.05 ha.

[Primary (STC Code- AADCM8079PST001)

Secondary (SIC Code- 3241)

(iii) Production capacity (per Year): - 2240740 Unit: - MT

(iv) Year of establishment: - 2017

(v) Date of the last environmental statement submitted: - 29th June'2022.

PART - B

Water and Raw Material Consumption

(i) Water consumption m³/d

Process : - Not Applicable

Cooling : - Not Applicable

Domestic : - Not Applicable

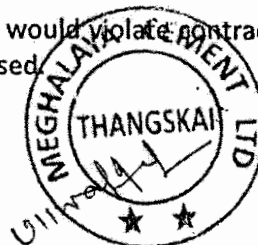
Process water consumption per unit of products output

Name of products	During the previous financial year 2021-22	During the current financial year 2022-23
	(1)	(2)
(1)	Not Applicable	Not Applicable
(2)	Not Applicable	Not Applicable
(3)	Not Applicable	Not Applicable

(ii) Raw Material consumption

*Name of raw material	Name of products	Consumption of Raw material per unit of output	
		During the previous financial year 2021-22	During the current financial year 2022-23
Limestone	Cement grade Limestone	1130502 MT	1159894 MT

* Industry may use codes disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used



PART – C**Pollution discharged to environment / unit of output**

(Parameters as specified in the consent issued)

(i) Pollutants	Quantity of pollutants discharged mass / day	Concentrations of pollutants discharges (mass/ volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Not Applicable	Not Applicable	Not Applicable
(b) Air i) PM ₁₀ ii) PM _{2.5}	100 µg/m ³ 60 µg/m ³	37.76 µg/m ³ 24.32 µg/m ³ (Average of last three months)	Concentration of pollutants is within the prescribed limit.

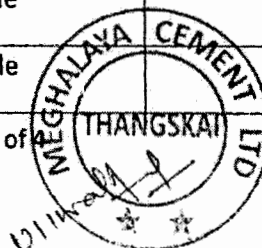
PART – D**Hazardous Waste**

[As specified under Hazardous Wastes (Management and Handling) rules, 1989]

Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year 2021-22	During the current financial year 2022-23
(a) From process	Not Applicable	Not Applicable
(b) From pollution control facilities	Not Applicable	Not Applicable

PART – E**Solid Waste**

Solid Wastes	Total Quantity	
	During the previous financial year 2021-22	During the current financial year 2022-23
(a) From process	Not Applicable	Not Applicable
(b) From pollution control facilities	Not Applicable	Not Applicable
(c) (1) Quantity recycled or re-utilized within the unit	Not Applicable	Not Applicable
(2) Sold	Not Applicable	Not Applicable
(3) Disposed	Not Applicable	Not Applicable



PART – F

Please specify the characteristics (in terms of composition of quantum) of Hazardous as well as Solid waste and indicate disposal practice adopted for both the categories of wastes :- **Not Applicable.**

PART – G

Impact of pollution abatement measures taken on conservation of natural resources and on the cost of production: - The low grade limestone is being used along with the high grade limestone through blending as per need of lime content for maintaining the raw-mix quality. Hence the material is consumed in totality.

PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution: - Already pollution control measures are taken and functioning properly. Thus regular maintenance will be done as and when required.

PART – I

Any other particulars for improving the quality of environment: - We are adopting plantation activities for improving the environment. We have planted total of 372 nos. of species of different plants up to 31st March, 2023 since inception within and outside the mining lease area and their rate of survival is satisfactory.



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"Meghalaya Cement Limited has started the mining activity in South Kallehjarl Mines over an area of 31.05 Ha. falling under the village Thangskal of Elaka Narpuh and they are conducting their activity in good manner and maintaining the environmental hazards within the limit."



Regular Education

Separate classes-School | Tuition | Coaching

Time wastage in travel

NO TIME for self study

Separate Teaching Approach in School and Coaching

Have to respect people
MDA justifi

Vectors Academy

Integrated Board-Coaching

Time Savings

Adequate time for self study

OFFICE OF SMT. L. W. PHURA : PRESIDING
OFFICER : SUBORDINATE
COUNCIL COURT : AT SHILLONG
Electoral Smt No. 2 of 2016
Shillong

THE PROJECTS CONSTRUCTION CORPORATION LTD.
A GOVT. OF INDIA ENTERPRISE
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Shilling: Ka Sherwood School, Turu ka ha long ka skul keba la wanchakmet ch ha ka result SSIC na chkam Maatik ha la pnying ha ka Maiose ha, ka sangi

ibonchey: K xue ka skul ka la lamkhmet ha ki saw yill ki pythan keba khachmet ch ha ka thup jong ki 20 nyet ithe la van shachmet. Uba la

Aung Thawee cha la keh 581 mark, **Ungwe** had na the Thabe Seal, **Sharran**, u Yash Khandaival, u Prayush Patu, u Siddh Agarwal ha

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