



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



Ref: MCL/ENV/MoEF&CC/Compliance-I/2025-26/28

Date: 12/11/2025

To,

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

Sub: - Submission of half yearly compliance report for 2600 TPD cements plant for the period of April'2025 to September'2025.

Dear Sir,

We are hereby furnishing the half yearly compliance report (hard copy and soft copy) for the period from April'2025 to September'2025 on Environmental Stipulation for Expansion of Cement Plant (from 900 TPD to 2600 TPD) along with 10MW Captive Power Plant at Village- Thangskai, East Jaintia Hills District, Meghalaya, vide your Environment Clearance letter no SEIAA/PROJECT-2/2007/18 dated: 25th March'2009.

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

.....
(Authorized Signatory)

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.

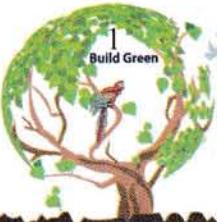


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Registered Office :
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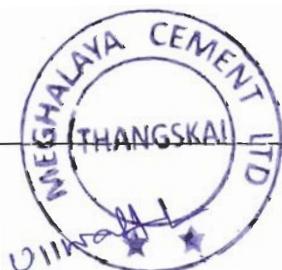


Half yearly Compliance Report (for the period April'2025 to September'2025) on Environmental Stipulations for Expansion of Cement Plant (from 900 TPD-2600 TPD), along with 10 MW Captive Power Plant at Thangskai, East Jaintia Hills District by M/s Meghalaya Cements Ltd. – Environmental Clearance Letter No. SEIAA/PROJECT-2/2007/18; Dated 25th March 2009.

Sl. No. as per letter dated 25.03.2009 of State Environment Impact Assessment Authority	Compliance Status
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A. SPECIFIC CONDITIONS

(i)	<p>A stack of 100 m height shall be provided with continuous on-line monitoring system in respect of Thermal Power Plant [TPP] The data collected shall be analyzed and submitted regularly to the Meghalaya State Pollution Control Board.</p>	<p>Complied with. A stack of required height is provided and opacity meter for continuous online monitoring (CEMS) is provided. The data transmission of online data to MsPCB and CPCB are being done through the system. Also, Monthly report for the Analysis of PM, Sox, Nox and Hg being submitted to MsPCB. Tested data for Captive Power Plant Stack is mentioned below for the period of April'2025 to September'2025:-</p> <table border="1" data-bbox="842 968 1480 1147"> <thead> <tr> <th></th><th>Apr' 2025</th><th>May' 2025</th><th>Jun' 2025</th><th>Jul' 2025</th><th>Aug' 2025</th><th>Sep' 2025</th><th>Avg.</th></tr> </thead> <tbody> <tr> <td>PM</td><td>45</td><td>17.8</td><td>43</td><td>46</td><td>41</td><td>42</td><td>39.13</td></tr> <tr> <td>SO₂</td><td>418</td><td>428</td><td>0423</td><td>429</td><td>429</td><td>431</td><td>426.4</td></tr> <tr> <td>NOx</td><td>167</td><td>140</td><td>0179</td><td>183</td><td>183</td><td>189</td><td>173.5</td></tr> <tr> <td>Hg</td><td>0.005</td><td>-</td><td>-</td><td>0.005</td><td>0.005</td><td>0.004</td><td>0.005</td></tr> </tbody> </table>		Apr' 2025	May' 2025	Jun' 2025	Jul' 2025	Aug' 2025	Sep' 2025	Avg.	PM	45	17.8	43	46	41	42	39.13	SO ₂	418	428	0423	429	429	431	426.4	NOx	167	140	0179	183	183	189	173.5	Hg	0.005	-	-	0.005	0.005	0.004	0.005
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(ii)	<p>High efficiency Electrostatic Precipitators [ESPs] of not less than 99.98% efficiency shall be installed in the TPP to limit particulate emission to 50 mg/Nm³</p>	<p>Complied with. ESP is provided for thermal power plant to control the emission from Captive power plant and it is working effectively. Monthly report for the Analysis of PM is being submitted to MsPCB. Tested data for Captive Power Plant Stack is mentioned below for the period of April'2025 to September'2025:-</p> <table border="1" data-bbox="842 1423 1480 1507"> <thead> <tr> <th></th><th>Apr' 2025</th><th>May' 2025</th><th>Jun' 2025</th><th>Jul' 2025</th><th>Aug' 2025</th><th>Sep' 2025</th><th>Avg.</th></tr> </thead> <tbody> <tr> <td>PM</td><td>45</td><td>17.8</td><td>43</td><td>46</td><td>41</td><td>42</td><td>39.1</td></tr> </tbody> </table>		Apr' 2025	May' 2025	Jun' 2025	Jul' 2025	Aug' 2025	Sep' 2025	Avg.	PM	45	17.8	43	46	41	42	39.1																								
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(iii)	<p>Sorbent limestone shall be fed (12% of coal by weight) along with coal in the boiler of the TPP to reduce formation of Sox and thus help neutralize the impact of sulphur in coal.</p>	<p>Complied with. Provision has been made for lime feeding in boiler through over bed feeding system to reduce the formation of SO₂. Project proponent is using limestone for above purpose, as per requirement of the process and it helps neutralize the impact of sulphur in coal. Monthly report for the Analysis of SO₂ is being submitted to MsPCB. Tested data for Captive Power Plant Stack is mentioned below for the period of April'2025 to September'2025:-</p> <table border="1" data-bbox="842 1873 1480 1967"> <thead> <tr> <th></th><th>Apr' 2025</th><th>May' 2025</th><th>Jun' 2025</th><th>Jul' 2025</th><th>Aug' 2025</th><th>Sep' 2025</th><th>Avg.</th></tr> </thead> <tbody> <tr> <td>SO₂</td><td>418</td><td>428</td><td>0423</td><td>429</td><td>429</td><td>431</td><td>426</td></tr> </tbody> </table>		Apr' 2025	May' 2025	Jun' 2025	Jul' 2025	Aug' 2025	Sep' 2025	Avg.	SO ₂	418	428	0423	429	429	431	426																								
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(iv)	Space provision shall be made for Flue Gas De-sulphurisation [FGD] unit of requisite efficiency for removal of SO ₂ when required at a later stage.	<p>Complied with.</p> <p>Space provided for Flue Gas De-sulphurisation [FGD] unit of requisite efficiency for removal of SO₂ when required at a later stage. The Project proponents are using CIL Auction coal in Captive power plant. The Company has maintained SO₂ in flue gas within the prescribed range. Also, provision for lime feeding in boiler through over bed feeding system has been made to reduce the formation of SO₂. Monthly report for the Analysis of Sox is being submitted to MsPCB. Tested data for Captive Power Plant Stack is mentioned below for the period of April'2025 to September'2025:-</p> <table border="1" data-bbox="846 743 1472 844"> <thead> <tr> <th></th><th>Apr' 2025</th><th>May' 2025</th><th>Jun' 2025</th><th>Jul' 2025</th><th>Aug' 2025</th><th>Sep' 2025</th><th>Avg.</th></tr> </thead> <tbody> <tr> <td>SO₂</td><td>418</td><td>428</td><td>0423</td><td>429</td><td>429</td><td>431</td><td>426</td></tr> </tbody> </table>		Apr' 2025	May' 2025	Jun' 2025	Jul' 2025	Aug' 2025	Sep' 2025	Avg.	SO ₂	418	428	0423	429	429	431	426
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(v)	Dust extraction and suppression system along with water sprinklers shall be provided for controlling fugitive dust during transportation, in coal storage area and other vulnerable area of the TPP.	<p>Complied with.</p> <p>Water sprinkling is being carried out on daily basis in plant premises on the places where fugitive dust particles are present and also on internal roads through Mobile tanker fitted with sprinklers.</p> <p>Permanent Water Sprinklers has already installed along the haul road in the CPP, Coal storage area and other vulnerable areas to reduce the fugitive emission which is working efficiently.</p>																
(vi)	Water requirement for the Thermal Power Plant shall be met from the existing water source. No ground water shall be extracted for the power plant at any stage.	<p>Complied with.</p> <p>Water requirement for the Thermal Power Plant is meeting from Chynryntong-Umparti River. During rainy season PP is using Seepage Rain water for operation of Captive Power Plant.</p> <p>No extraction of ground water is being done by the PP for any activities. Water consumption for Captive Power Plant is mentioned below for the period of April'2025 to September'2025:-</p> <table border="1" data-bbox="846 1500 1472 1601"> <thead> <tr> <th></th><th>Apr' 2025</th><th>May' 2025</th><th>Jun' 2025</th><th>Jul' 2025</th><th>Aug' 2025</th><th>Sep' 2025</th><th>Avg.</th></tr> </thead> <tbody> <tr> <td></td><td>15399</td><td>10897</td><td>14108</td><td>16518</td><td>11681</td><td>12047</td><td>540.8</td></tr> </tbody> </table>		Apr' 2025	May' 2025	Jun' 2025	Jul' 2025	Aug' 2025	Sep' 2025	Avg.		15399	10897	14108	16518	11681	12047	540.8
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(vii)	Closed Cycle Cooling system with induced draft cooling towers shall be provided in the Thermal Power Plant.	<p>Complied with.</p> <p>Closed cycle cooling system has been adopted and recirculation of cooling water is being practiced.</p> <p>Induced draft cooling towers are a type of mechanical draft tower that features with fans. These fans will be located atop the tower, drawing air upwards against the downward flow of water. The water is passed through it and system is working efficiently.</p>																
(viii)	Fire protection system shall be made in coal stock yard and other vulnerable areas of the TPP. Fire protection equipment and	<p>Complied with.</p> <p>Fire protection system along with fire extinguisher of various types is already installed within the entire</p>																



	machinery should be tested periodically and shall always be kept in operational mode. Mock drills shall be conducted regularly.	premises as well as other vulnerable areas of TPP. Also, Fire Hydrants has installed at coal stock yard and other vulnerable areas of the Captive Power Plant. Regular safety training is being provided to the workers. The fire protection equipment's and machineries are being tested periodically and kept in operation mode. Mock drills are being conducted on regular basis by our Safety & Vigilance Department. Details of Mock drills and trainings are attached as an Annexure-I Also, Summary sheet of periodic testing for Fire protection equipment and machinery is attached as an Annexure-II
(viii) (a)	The PP is prohibited to use high sulphur local coal in its thermal power plant.	Complied with. PP is not using high sulphur local coal in its thermal power plant. The Project proponents are using CIL Auction coal in Captive power plant.
(ix)	The treated effluents shall be re-circulated and reused within the plant area. There shall be no waste water discharge outside the plant boundary.	Complied with. The PP has installed Sewage Treatment Plant with capacity 200 KLD & 100 KLD for treatment of domestic effluents and Effluents Treatment Plant with capacity 25 KLD for treatment of Effluents water generated from Automobile workshop. 100% treatment is being done and treated water is being utilized in Dust suppression, Green belt development and Vehicle washing in or around the plant and colony. No waste water is discharge outside the plant boundary.
(x)	Rain water harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board within six months of receipt of Environmental Clearance.	Complied with. The PP has upgraded the existing system of Rain water harvesting. Scheme for rain water recharging pit has been made, the rain water collection and reuse also being practiced to fulfill the requirement of cooling water as well as drinking purpose during monsoon period. 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. Further, CGWB-Guwahati has issued Report and give their recommendation. MCL has taken action on it and made appropriate no. of Rain water harvesting tanks and submitted Action Taken Report to Regional Director, CGWB vide letter no. MCL/ENV/CGWB/Comm./2024-24/12, Dated- 08.06.2024. Inspection done for verification of Action Taken Report. Action taken report is attached as an Annexure-III . Thereafter, Site visit has been done by CGWB-Shilling, now waiting for their closure report.



(xi)	Permission for drawl of water of the required quantity from the streams in favor of the Cement – Thermal Power Plant complex shall be secured from the competent Authority within 6 (six) months of receipt of Environmental Clearance.	<p>Complied with.</p> <p>Permission for drawing of water has been obtained from Executive Engineer (Irrigation), Jaintia, Hills Division Jowai; vide letter no. AID (J) 223/2007-2008/4456, Dated Jowai 24th March 2008 for the required quantity 0.04 Cumecs from Chynryntong-Umparti river. Also, PP has obtained NOC from Office of the Deputy Commissioner Jaintia Hills District vide letter no. GEN/MCL-4/81/140-A, dated 21st Nov 2007, Office of the Dollo Elaka Narpuh, Jaintia Hills District, dated 03 Sept 2007 and Office of the Jaintia Hills Autonomous District Council, Jowai vide letter no. JHADC/FOR/22/04/1318, dated 05th June 2007. Copy of the all NOC are attached as Annexure- IV</p>
(xii)	Noise level in the Thermal Power Plant premises shall be limited to 75 dB and regular maintenance of equipment should be undertaken. For personnel working in high noise areas, personal protection devices like earplugs /ear muffs, etc. should be provided. Workers engaged in noisy areas such as turbine area, air compressors, etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss apart from exercising option of shifting to non-noisy/less noisy areas when necessary.	<p>Complied with.</p> <p>Noise level in TTP premises is analyzed periodically and it is being maintained under limit. Necessary PPEs like earplugs /ear muffs, etc. are being provided to those employees who engaged in noisy areas such as turbine area, air compressors, etc. We have fully automated system for operation of turbine, so the exposure of employee to the high noise is very less. The PP has provided an acoustic covered screw air compressor to maintain the noise level within the permissible limit i.e 75 dB. The regular routine testing of the machinery is been carried out as per the manufacturers' manuals</p> <p>Periodically examination of employees is being done to maintain audiometric record and for treatment for any hearing loss apart from exercising option of shifting to non-noisy/less noisy areas.</p> <p>Analysis report for Noise level attached as Annexure-V</p> <p>List of the employees who have examined audiometric record are mentioned as an Annexure-VI</p>
(xiii)	Acoustic hoods shall be provided in respect of all equipment that has potential to contribute towards noise pollution and additionally technical improvement measure detailed in Para 4.3.2 of the EIA/EMP report of the project proponent shall be adopted in the TPP towards noise attenuation.	<p>Complied with.</p> <p>The project proponent has provided acoustic hoods in the Thermal Power Plant. Also, Earmuff/Ear Plug has been provided to the workers who engaged in highly noisy area and regularly observed by Safety Officer. Noise pollution has regularly monitored by Environment department and Detailed report attached as Annexure-V</p>
(xiv)	Dry ash collection system shall be provided in the Thermal Power Plant. 100% ash utilization shall be ensured from the very first day of commissioning of the Thermal Power Plant.	<p>Complied with.</p> <p>Fly ash generated in Captive Power Plant is completely collects in silo through ESP and it is being loaded into tankers for feeding to cement mill hoppers pneumatically. Hence 100% consumption of the ash generated is achieved in our cement plant.</p>



(xv)	The stack emission from various sources shall not exceed 50 mg/Nm ³	<p>Complied with. The stack emission from various sources has monitored regularly for PM, Sox and Nox. Total 13 stack are existing in plant including Captive Power Plant. Monitoring of Hg being done on regular basis. All the parameters are maintained within permissible limits. Details of the Stacks as mentioned below: -</p> <table border="1" data-bbox="858 541 1496 1208"> <thead> <tr> <th>Chimney</th><th>Avg. of Apr'25 to Sep'25</th><th>Permissible Limits (mg/Nm³)</th></tr> </thead> <tbody> <tr><td>Pr. Crusher</td><td>17.16</td><td>30</td></tr> <tr><td>Sec. Crusher</td><td>18.3</td><td>30</td></tr> <tr><td>Coal mill 1</td><td>24.77</td><td>30</td></tr> <tr><td>Coal mill 2</td><td>24.18</td><td>30</td></tr> <tr><td>VRM Coal Mill</td><td>29</td><td>30</td></tr> <tr><td>RABH-1 (PM)</td><td>20.46</td><td>30</td></tr> <tr><td>RABH-1 (Sox)</td><td>635.55</td><td>1000</td></tr> <tr><td>RABH-1 (Nox)</td><td>280.97</td><td>600</td></tr> <tr><td>RABH-2 (PM)</td><td>19.54</td><td>30</td></tr> <tr><td>RABH-2 (Sox)</td><td>644.09</td><td>1000</td></tr> <tr><td>RABH-2 (Nox)</td><td>283</td><td>600</td></tr> <tr><td>ESP 1</td><td>26.77</td><td>30</td></tr> <tr><td>ESP 2</td><td>26.94</td><td>30</td></tr> <tr><td>Cement Mill No-1</td><td>21.67</td><td>30</td></tr> <tr><td>Cement Mill No-2</td><td>22.75</td><td>30</td></tr> <tr><td>Packing House-1</td><td>20.42</td><td>30</td></tr> <tr><td>Packing House-2</td><td>19.95</td><td>30</td></tr> <tr><td>CPP (PM)</td><td>39.13</td><td>50</td></tr> <tr><td>CPP (Sox)</td><td>426.43</td><td>600</td></tr> <tr><td>CPP (Nox)</td><td>173.57</td><td>300</td></tr> <tr><td>CPP (Hg)</td><td>0.005</td><td>0.03</td></tr> </tbody> </table> <p>Reports are attached as Annexure-V</p>	Chimney	Avg. of Apr'25 to Sep'25	Permissible Limits (mg/Nm ³)	Pr. Crusher	17.16	30	Sec. Crusher	18.3	30	Coal mill 1	24.77	30	Coal mill 2	24.18	30	VRM Coal Mill	29	30	RABH-1 (PM)	20.46	30	RABH-1 (Sox)	635.55	1000	RABH-1 (Nox)	280.97	600	RABH-2 (PM)	19.54	30	RABH-2 (Sox)	644.09	1000	RABH-2 (Nox)	283	600	ESP 1	26.77	30	ESP 2	26.94	30	Cement Mill No-1	21.67	30	Cement Mill No-2	22.75	30	Packing House-1	20.42	30	Packing House-2	19.95	30	CPP (PM)	39.13	50	CPP (Sox)	426.43	600	CPP (Nox)	173.57	300	CPP (Hg)	0.005	0.03
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(xvi)	The project proponent shall get the optimum functioning of the environmental protection equipment certified by a technical institution of repute.	<p>Complied with. Performance assessment has been conducted as per as the norms by the ETS Lab Private Limited. Further the project proponent is continuously maintaining the pollution control devices to maintain the efficiency. Regular maintenance of Pollution Control Device has taken by PP. The test results for environmental protection equipment are attached. Annexure-VII</p>																																																																		
(xvii)	Bag House/Filters shall be provided to control the fugitive emission during loading and unloading of raw materials/intermediate and finished products.	<p>Complied with. Nuisance bag filters, Bag House and ESP has been provided to control fugitive emission at Crusher, Raw Mill, Coal Mill, Kiln, Cement mill & Packing Plant. Regular maintenance is being done to maintain the efficiency of the Bag House/Filters and other Pollution control device. Fugitive emission are being monitored regularly: -</p> <table border="1" data-bbox="858 1799 1496 1976"> <thead> <tr> <th>Location</th><th>Avg. of Apr'25 to Sep'25</th><th>As per standard limit ($\mu\text{g}/\text{m}^3$)</th></tr> </thead> <tbody> <tr><td>Lime stone Storage Area</td><td>2106.5</td><td>5000</td></tr> <tr><td>Coal Storage Area</td><td>734.6</td><td>2000</td></tr> </tbody> </table>	Location	Avg. of Apr'25 to Sep'25	As per standard limit ($\mu\text{g}/\text{m}^3$)	Lime stone Storage Area	2106.5	5000	Coal Storage Area	734.6	2000																																																									
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(xviii)	The project proponent shall store all the raw materials except limestone in covered sheds to control fugitive emission. The coal storage facility should have water sprinkling facility in order to arrest fire hazard, if any.	<p>Complied with. All the raw materials except limestone are being stored in covered shed. We have constructed an additional Coal Shed with impervious flooring, fire hydrants and permanent water sprinkling facilities. Coal is being stored inside the permanent shed.</p>												
(xviii) (a)	The storage of the coal dump shall be housed by permanent sheds open on all sides and stacked on impervious floor, preferably cemented to prevent Acid Mine Drain (AMD).	<p>Agreed for compliance. We have constructed an additional Coal Shed with impervious flooring, fire hydrants and permanent water sprinkling facilities. Coal is being stacked on impervious cemented floor inside the permanent shed open on all sides to prevent Acid Mine Drain (AMD).</p>												
(xviii) (b)	The project proponent shall construct garland drains along with Acid Mine Drains Neutralization tanks, in consultation with and approved by the state pollution control board.	<p>Agreed for compliance. The Project proponent has constructed garland drain along with Acid Mine Drains Neutralizing tanks in consultation with and approved by the state pollution control board. PP has adopted approval for the Neutralizing Tank from Meghalaya State Pollution Control Board vide letter no. MPCB/TB-CON-143-2007/2023-24/24, Dated Shillong 26th February 2024. PP has submitted Analysis report for checking of effectiveness of Neutralizing Tank. The acknowledged copy of Approval of Neutralizing Tank and Analysis report is attached as an Annexure-IX.</p>												
(xviii) (c)	No direct discharge of AMD into any drains/natural drains shall be allowed; proper treatment of AMD shall be done by the Project Proponent in the Neutralization Tank before releasing the water to the drain/natural drain, which shall be duly approved by the Meghalaya State Pollution Control Board.	<p>Agreed for compliance. The PP has maintaining No direct discharge of AMD into any drains/natural drains. Proper treatment of AMD is being done by the Project Proponent in the Neutralization Tank before releasing the water to the drain/natural drain. PP has adopted approval for the Neutralizing Tank from Meghalaya State Pollution Control Board vide letter no. MPCB/TB-CON-143-2007/2023-24/24, Dated Shillong 26th February 2024. PP has submitted Analysis report for checking of effectiveness of Neutralizing Tank to MeSEB. The acknowledged copy of Approval of Neutralizing Tank and Analysis report is attached as an Annexure-IX.</p>												
(xix)	The ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Meghalaya State Pollution Control Board (MsPCB) and	<p>Complied with. The testing of ambient air quality is being done at four locations including downwind direction and where maximum ground level concentrations are anticipated.</p>												



	<p>additional stations shall be installed, in the downwind direction as well as where maximum ground level concentrations are anticipated.</p>	<p>The testing parameters are PM₁₀, PM_{2.5}, SO₂, NO_x. One online ambient air quality monitoring station installed near Plant entrance gate in consultation with the Meghalaya State Pollution Control Board.</p>
(xx)	<p>Quarterly reports on emission levels, surface and ground water quality shall be submitted to Meghalaya State Pollution Control Board, Chromium (VI) level in nearby surface water bodies flowing in the eastern site of the Plant, and ground water shall be monitored and reported to the MSPCB. Water in the Common Effluent Pit of the TPP shall be monitored monthly for Chromium (VI) toxicity and ensured that its level dose not rise beyond 0.05 mg/t.</p>	<p>Complied. Report on emission levels are being submitted to Meghalaya State Pollution Control Board. Report attached as Annexure-V Chromium (VI) level in nearby surface water bodies flowing in the eastern site of the Plant (i.e Um parti River) are is being monitored on monthly basis and submitted to MSPCB with Half yearly compliance. The results of Chromium (VI) for average of the Apr'25-Sep'25 are 0.0273 mg/t for Upstream & 0.0311 for Downstream. Detailed report of Chromium (VI) for Surface water is attached as an Annexure-X.</p>
(xxi)	<p>Total water requirement shall not exceed 2000 cum/day [inclusive of the water requirement of the TPP]. The project proponent shall install sewage treatment plant of minimum 120 m³ /day capacity employing suitable and appropriate technology to treat domestic sewage and treated sewage shall be utilized for green belt development. No waste water shall be discharged outside the premises and zero discharge shall be ensured. No surface runoff from the factory premises shall either reach/contaminate Um-lunar River or any other stream flowing near the industrial location.</p>	<p>Complied. Total water requirement will not exceed 2000cum/day including TPP. The PP has installed the Sewage Treatment Plant to treat the domestic sewage water with the help of suitable and appropriate technology. 100% treated water is being utilized for green belt development and dust suppression. Also, Effluent Treatment Plant (ETP) has installed to treat the effluent water generated from Automobile workshop. 100% treated water is being utilized for washing of HEMM vehicle. No waste water is being discharged outside the premises and zero discharge is maintained by the company. There is no surface runoff from the factory premises either reach/contaminate Um-lunar</p>



		River or any other stream flowing near the industrial location. Water consumption details mentioned here: -												
		<table border="1"> <thead> <tr> <th>Location</th><th>Avg. of Apr'25 to Sep'25</th><th>Water Consumption not exceed</th></tr> </thead> <tbody> <tr> <td>Domestic consumption</td><td>166.78</td><td rowspan="4">2000 m³/Day</td></tr> <tr> <td>Cement Plant Industrial consumption</td><td>458.60</td></tr> <tr> <td>WHRS Industrial consumption</td><td>200.56</td></tr> <tr> <td>Captive Power Plant consumption</td><td>540.80</td></tr> </tbody> </table>	Location	Avg. of Apr'25 to Sep'25	Water Consumption not exceed	Domestic consumption	166.78	2000 m ³ /Day	Cement Plant Industrial consumption	458.60	WHRS Industrial consumption	200.56	Captive Power Plant consumption	540.80
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Details of Water consumption attached in Annexure-V														
(xxii)	The project proponent shall make all-out effort to use high calorific value hazardous waste in the kiln towards which necessary provision shall be made.	<p>Complied with. The project proponent has made an Automated mechanical arrangement for feeding of high calorific value hazardous waste in the kiln in Tertiary Air Duct (TAD) at pre- heater and using the waste as alternative fuel on availability basis. NOC for utilization of high calorific waste has been obtained from MsPCB vide letter no. MPCB/TB-86(2016)/2019-2022/35, dated 17th Dec 2019 for Plastic waste, Scrap Tyre and Wood chips.</p>												
(xxiii)	The project proponent shall transport raw materials and industrial products through covered means.	<p>Complied with. Raw materials like coal and industrial products like clinker are being transported from one location to other location by properly covered with tarpaulin to avoid any spreading of fugitives.</p>												
(xxiv)	Thirty three percent of the core project area i.e. 20.143 Ha of land shall be developed as green belt by the project proponent as per the guidelines of Central Pollution Control Board to mitigate the effect of fugitive emission, incurring the expenditure as stated by the project proponent. The program ought to be completed within 5 years from the date of issue of prior Environmental Clearance. Suitable species in respect of the same for the stated area shall be approved by the project proponent from the DFO (Territorial) of Jaintia Hills District.	<p>Complied with. Development of Green belt had been started in the Year 2009 and 100% of the project area (i.e. 20.22 Ha) plantation has been completed. Suitable local species are being planted as per the suggestions given by the Sr. Engineer, (CPCB) & DFO (Territorial); East Jaintia hills Dist, Jowai. The details are enclosed herewith for your kind reference. As per amendment of EC vide letter no. SEIAA/PROJECT-2/2007/8/1818 dated Shillong, the 30th September, 2020 (Area 59.269 to 52.949). Total plantation including project area and around the project area is 19.9253 Ha. Details of the Plantation is attached as an Annexure-XI.</p>												



	<p>(xxv) The project proponent shall provide a Health Care Center with all emergency medicines and ambulance along with regularly serving doctors complete with emergency unit that would function round the clock. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained in compliance of provisions contained on Chapter III and V of the Factories Act, 1948.</p>	<p>Complied with. The Health Care Centre is functioning under qualified Doctor, Nurses and staffs. With all emergency medicine and ambulance to meet up the emergency.</p> <p>Complied with. 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. The following equipment's 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, Accuchek 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 employees working in company and details of Occupational health center including Medical staff, Equipment's and testing facilities attached as an Annexure-VI&Annexure-XII.</p>
(xxvi)	<p>The salaries of the Cleaners shall be raised by 30% from the present Rs.2500/- p.m. as assured by the project proponent at p.0.15 of the EIA/EMP report in response to concern raised during the Public Hearing.</p>	<p>Complied with. The salaries of Cleaners are being reviewed on the yearly basis. Total 71 Cleaners are working and details of salary is attached as Annexure- XIII.</p>



(xxvii)	Measures shall be taken to prevent impact of particulate emission/fugitive emission, if any, from the proposed plant on the surrounding private forest areas depicted in their land use study.	<p>Complied with.</p> <p>An air quality dispersion modelling study has been carried out to assess the contribution by the existing stacks of the cement plant in the present ambient air quality of the area within 10 km radius of the project. The storage areas of the various raw materials and fuels are covered and hence, the fugitive airborne dust due to wind erosion has not been considered. This air quality dispersion modeling study has been carried out by M/s Min Mec Consultancy Pvt. Ltd., New Delhi (Accredited by NABET, QCI vide letter no. NABET/EIA/2225/IA 0095 valid till 29.03.2025). The conclusion of the report speaks that the maximum Ground Level Concentration does not have a significant impact on environment/ ambient air quality on sensitive receptors. Copy of the report has already submitted to IRO-Shillong vide letter no. - MCL/ENV/MoEF&CC/Compliance-I/2022-23/35, dated 10th Dec'2022.</p>
(xxviii)	The project proponent shall take all such measures as are necessary in the matter of utilization of limestone towards ensuring that no unscientific extraction of limestone is encouraged in the process.	<p>Complied with.</p> <p>The Project proponent ensures that no unscientific extraction of limestone is encouraged in the process. The best mining practices are being adopted by the Project Proponent for extraction of limestone. 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. All necessary approval taken from the Authority and NOC from nearby villagers. The mining is being done in day light time only and necessary measures are being maintained to mitigate the impact of Air, water, Noise Pollution. Also, Plantation is being done by the mining employee to maintain the ecology. Regular water sprinkling is being done to avoid fugitive emission. Also, transportation of limestone is being done through covered vehicle.</p>
(xxix)	Meghalaya has been recognized as a cradle for several endemic species and an important constituent of the biodiversity hotspots spread over North East India. Therefore, as a measure of protection of rich biodiversity of the region, the project proponent shall cover an area of	<p>Complied with.</p> <p>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</p>



	<p>not less than 2 ha where would be located green house, mist chamber etc. (within the green belt area already stipulated above), locate conservation plots in respect of at least two of the following species of endangered and endemic plants reported to have been occurring within the region:</p> <ul style="list-style-type: none"> i) <i>Pteracanthus griffithianus</i>, Acanthaceae ii) <i>Nepenthes Khasiana</i>, Nepenthaceae iii) <i>Argostemma khasianum</i>, Rubiaceae iv) <i>Fimbristylisnigrobrunnea</i>, Cyperaceae v) <i>Trivalvaria kanjilali</i>, Annonaceae vi) <i>Begonia rubrovenia</i>, Begoniaceae vii) <i>Ceologyne ovalis</i>, Orchidaceae <p>A scheme /conceptual plan of raising such threatened species shall be prepared in consultation with a reputed institution such as Botanical Survey of India complete with cost and activity schedule within one year from date of issue of prior Environmental Clearance.</p>	<p>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 greenhouse already developed with mist chamber and conservation of three flora species namely:</p> <ul style="list-style-type: none"> i) <i>Nepenthes Khasiana</i>, Nepenthaceae ii) <i>Begonia rubrovenia</i>, Begoniaceae iii) <i>Ceologyne ovalis</i>, Orchidaceae iv) <i>Cymbidium</i> Orchidceae v) <i>Cattelya</i> Orchidceae <p>Project report on Biodiversity Inventorization and Conservation through Assisted Regeneration of RET Species has already submitted to IRO-Shillong vide letter no. -MCL/ENV/MoEF&CC/Compliance-I/2022-23/35, dated 10th Dec'2022. Photographs are attached as an Annexure-XIV</p>
(xxx)	<p>The project proponent shall sponsor research and development for conservation of threatened category of species occurring locally such <i>Hedychium dekanum</i>, [Zingiberaceae], <i>Cymbidium eburneum</i> (Orchidceae), or <i>Dendrobium denonianum</i> (Orchidceae) which would be carried out by an appropriate research or academic institution located in Meghalaya within a year of issue of prior Environmental Clearance. The research project shall be instituted at an expenditure of a minimum of Rs.5 lakh per year spread over at least 3 years.</p>	<p>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 greenhouse already developed with mist chamber and conservation of three flora species namely:</p> <ul style="list-style-type: none"> i) <i>Nepenthes Khasiana</i>, Nepenthaceae ii) <i>Begonia rubrovenia</i>, Begoniaceae iii) <i>Ceologyne ovalis</i>, Orchidaceae iv) <i>Cymbidium</i> Orchidceae v) <i>Cattelya</i> Orchidceae <p>Photographs are attached as Annexure-XIV</p>
(xxxi)	<p>A Conservation Plan for conservation of wild fauna in consultation with a reputed institution such as Wildlife Institute of India, Dehradun shall be prepared and implemented. Such conservation plan drawn in respect of wild life shall be completed within a maximum of 1 year from the date of issue of prior Environmental Clearance and implemented thereafter by the project proponent.</p>	<p>Complied with. Conservation plan for the conservation of wild fauna has prepared by North Eastern Hill University (NEHU), Shillong against the Work Order no. MCL/WO/NEHU/22-23/287, dated: 03.11.2022. The title of the Work is “Preparation of Wildlife Conservation Plan”. Report is already submitted to Regional Office MoEF&CC, Shillong vide Letter no. - MCL/ENV/MoEF&CC/Compliance-II/2023-24/35, dated 16/06/2023. Also, Company is ready to contribute the funds for implementation of Regional conservation plan as</p>



		discussed in the meeting held at Regional Office MoEF&CC, Shillong.																
(xxxii)	A sum of Rs.2109.52 lakh shall be spent towards capital expenditure as stated by the project proponent towards environment protection and a further sum of Rs.501.60 lakh as recurring cost annually shall be spent by the project proponent towards environmental protection.	<p>Complied with. The Company has installed Pollution Control Device to control the air, water & noise pollution from the process. Regular maintenance of PDC is being carried out by the company. The revenue expenditure incurred on an environmental protection equipment's / Machineries (from April'25 to September'25) are mentioned below: -</p> <table border="1"> <thead> <tr> <th>Heading</th> <th>Amount in Rs.</th> </tr> </thead> <tbody> <tr> <td>Plant Bag Filters (Crusher, Raw Mills, Cement mill, Coal mill, Kiln & Packing Plant)</td> <td>381209.0</td> </tr> <tr> <td>ESP</td> <td>433486.0</td> </tr> <tr> <td>RABH</td> <td>9063919.0</td> </tr> <tr> <td>Sewage Treatment Plant, Effluent Treatment Plant & Neutralization Pit</td> <td>61138</td> </tr> <tr> <td>Green Belt Development</td> <td>71220</td> </tr> <tr> <td>Environment Miscellaneous</td> <td>183773</td> </tr> <tr> <td>Total</td> <td>10194745.0</td> </tr> </tbody> </table>	Heading	Amount in Rs.	Plant Bag Filters (Crusher, Raw Mills, Cement mill, Coal mill, Kiln & Packing Plant)	381209.0	ESP	433486.0	RABH	9063919.0	Sewage Treatment Plant, Effluent Treatment Plant & Neutralization Pit	61138	Green Belt Development	71220	Environment Miscellaneous	183773	Total	10194745.0
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(xxxiii)	A sum of Rs.50 lakh shall be utilized annually by the project proponent till the project subsists towards socio-economic/eco-development activities in the area part of which shall be spent towards distribution of free medicines, malaria eradication program etc. in the nearby villages. A portion of the sum (5%) shall be set apart annually towards creation of employees' welfare fund. Details of expenditure incurred under this Para shall form part of the compliance report to be submitted to the SEIAA/SEAC. Further, a comprehensive long-term eco-development plan shall be prepared by the project proponent within six months of receipt of prior Environment Clearance.	<p>Complied with. Implementation of socio-economic/eco-development activities has been done towards distribution of free medicines, malaria eradication program etc. in the nearby villages. Company has also spent funds annually towards creation of employees' welfare fund. The company has spent Rs.59,82,396.00 funds on the following activities under Socio-Economic Development under CSR activities (duration October'24-March'25): -</p> <ol style="list-style-type: none"> 1. Emphasis on Education 2. Sports Activity 3. Encouraging/Felicitation program for Students 4. Polio Immunization Camps, family planning, etc. 5. Infrastructure development of Hospitals / Schools 6. Cement Distribution Programme 7. Plant Distribution programme 8. Donation to Churches, Road & House Repairing etc 9. Community Feast 10. Drinking water supplying scheme 11. Village development funds <p>Detailed report is attached as an Annexure-XV Further, a comprehensive long-term eco-development plan shall be prepared by the project proponent with the help of NEHU Shillong. Report is already submitted vide letter no. MCL/Env/MOEF&CC/2021-22/05; Dt: 19.05.2021.</p>																



B. GENERAL CONDITIONS

In respect of the Cement Plant – Thermal Power Plant project the following general conditions shall be adhered to by the project proponent:

(i)	The project proponent shall strictly adhere to the stipulations of the MSPCB/State Government or any other statutory body as framed/modified from time to time.	Complied. The company has following the stipulation of MSPCB State Government or any other statutory body as framed/modified from time to time and complies accordingly.
(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 for compliance. The Project Proponent is not violating 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. The PP has following all applicable provisions of any Acts, Rules Orders of the Government and judicial orders issued by the Hon'ble Supreme Court/High Courts/NGT.
(ii)	At no point of time, either the clinker production or cement production of either PPC or OPC type shall exceed the limit of 2600 tons per day.	Agreed for compliance. As per EC Amendment (Ref. Letter No. - ML/SEIAA/PROJECT-2/2007/937; Dated, Shillong, 24 th November 2021) company can produce Annual production of 8, 58,000 MTPA and 330 day working for both Cement and Clinker. Therefore, company has maintaining the Annual production of 8, 58,000 MTPA both Cement and Clinker bases on 330 days working. The detail of Cement & Clinker Production as mentioned below: -
(iii)	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment & Forests or their nominated authority as the case may be. In case of deviation or alteration in the project proposal from those submitted to the Committee for clearance, a fresh reference shall be made to the SEAC through SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required if any.	Agreed for compliance. No further expansion or modification will be carried out by the company without prior approval of the Ministry of Environment & Forests or their nominated authority. The Company will inform to the authority and take prior approval and the same status or information will be share to SEAC through SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures.



	<p>(iv) The gaseous emissions (SO_2, NO_x) and particulate matter levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no point of time, the emissions shall exceed the prescribed limits. Interlocking system of equipment shall be chosen such that in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.</p>	<p>Complied. The gaseous emissions (SO_2, NO_x) and particulate matter levels from various process units are being maintained within prescribed limit. Data is continuously transmitted to SPCB/CPCB. ABB make SCADA based Interlocking is in system to control SO_2, NO_x levels in case of failure and working effectively and at no point of time the emission will exceed the prescribed limit. Monitoring results are mentioned below: -</p> <table border="1"> <thead> <tr> <th>Chimney</th><th>Avg. of Apr'25 to Sep'25</th><th>Permissible Limits (mg/Nm³)</th></tr> </thead> <tbody> <tr><td>Pr. Crusher</td><td>17.16</td><td>30</td></tr> <tr><td>Sec. Crusher</td><td>18.3</td><td>30</td></tr> <tr><td>Coal mill 1</td><td>24.77</td><td>30</td></tr> <tr><td>Coal mill 2</td><td>24.18</td><td>30</td></tr> <tr><td>VRM Coal Mill</td><td>29</td><td>30</td></tr> <tr><td>RABH-1 (PM)</td><td>20.46</td><td>30</td></tr> <tr><td>RABH-1 (Sox)</td><td>635.55</td><td>1000</td></tr> <tr><td>RABH-1 (Nox)</td><td>280.97</td><td>600</td></tr> <tr><td>RABH-2 (PM)</td><td>19.54</td><td>30</td></tr> <tr><td>RABH-2 (Sox)</td><td>644.09</td><td>1000</td></tr> <tr><td>RABH-2 (Nox)</td><td>283</td><td>600</td></tr> <tr><td>ESP 1</td><td>26.77</td><td>30</td></tr> <tr><td>ESP 2</td><td>26.94</td><td>30</td></tr> <tr><td>Cement Mill No-1</td><td>21.67</td><td>30</td></tr> <tr><td>Cement Mill No-2</td><td>22.75</td><td>30</td></tr> <tr><td>Packing House-1</td><td>20.42</td><td>30</td></tr> <tr><td>Packing House-2</td><td>19.95</td><td>30</td></tr> <tr><td>CPP (PM)</td><td>39.13</td><td>50</td></tr> <tr><td>CPP (Sox)</td><td>426.43</td><td>600</td></tr> <tr><td>CPP (Nox)</td><td>173.57</td><td>300</td></tr> <tr><td>CPP (Hg)</td><td>0.005</td><td>0.03</td></tr> </tbody> </table> <p>The gaseous emission report in detailed are attached as Annexure-V</p>	Chimney	Avg. of Apr'25 to Sep'25	Permissible Limits (mg/Nm ³)	Pr. Crusher	17.16	30	Sec. Crusher	18.3	30	Coal mill 1	24.77	30	Coal mill 2	24.18	30	VRM Coal Mill	29	30	RABH-1 (PM)	20.46	30	RABH-1 (Sox)	635.55	1000	RABH-1 (Nox)	280.97	600	RABH-2 (PM)	19.54	30	RABH-2 (Sox)	644.09	1000	RABH-2 (Nox)	283	600	ESP 1	26.77	30	ESP 2	26.94	30	Cement Mill No-1	21.67	30	Cement Mill No-2	22.75	30	Packing House-1	20.42	30	Packing House-2	19.95	30	CPP (PM)	39.13	50	CPP (Sox)	426.43	600	CPP (Nox)	173.57	300	CPP (Hg)	0.005	0.03
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(v)	<p>The project authorities should adhere to the provisions stipulated in the fly ash notification of September, 1999 as amended in August, 2003 with regard to fly ash utilization.</p>	<p>Complied with. Fly ash generation in our Captive Thermal Power Plant is completely collected by the ESP to its hoppers and it is being loaded into tankers for feeding to cement mill hoppers pneumatically. Hence 100% consumption of the flyash generated from the Captive Power Plant is being utilized in making of Cement.</p>																																																																		
(vi)	<p>The industry shall undertake the following waste minimization measures:</p> <ul style="list-style-type: none"> Reuse of by-products from the process as raw materials or as raw material substitutes in other process. Use of closed pneumatic system for transport of fine material. All venting systems shall be connected with dust or particulate arresting equipments. Dust/particulate matter collected in pollution control equipments shall be 	<p>Complied with. The Project Proponent is not generating any kind of bi-product of process. Closed pneumatic system is installed for transport of the fine material in the manufacturing process. All venting systems are connected with dust or particulate arresting equipment's such as Bag Filters.</p>																																																																		



	reused.																						
(vii)	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central pollution Control Board.	<p>Complied with.</p> <p>Monitoring of fugitive emission is already been undertaken and the tests were conducted in-house with our team and also by the third party. The Project Proponent is submitting monthly report to MsPCB which is generated by the third party as well as our laboratory team. Results of monitoring of Fugitive emissions in the work zone environment, product and raw materials storage area is mentioned below: -</p> <table border="1"> <thead> <tr> <th>Location</th><th>Avg. of Apr'25 to Sep'25</th><th>As per standard limit ($\mu\text{g}/\text{m}^3$)</th></tr> </thead> <tbody> <tr> <td>Lime stone Storage Area</td><td>2106.5</td><td>5000</td></tr> <tr> <td>Coal Storage Area</td><td>734.6</td><td>2000</td></tr> <tr> <td>Clinker Loading Area</td><td>2691.6</td><td>5000</td></tr> <tr> <td>Cement Loading Area</td><td>2438.1</td><td>5000</td></tr> <tr> <td>Coal Storage Area (CPP)</td><td>1113.6</td><td>2000</td></tr> <tr> <td>Fly Ash Silo Area (CPP)</td><td>966.5</td><td>2000</td></tr> </tbody> </table> <p>Detailed report is attached as an Annexure-VIII</p>	Location	Avg. of Apr'25 to Sep'25	As per standard limit ($\mu\text{g}/\text{m}^3$)	Lime stone Storage Area	2106.5	5000	Coal Storage Area	734.6	2000	Clinker Loading Area	2691.6	5000	Cement Loading Area	2438.1	5000	Coal Storage Area (CPP)	1113.6	2000	Fly Ash Silo Area (CPP)	966.5	2000
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(viii)	Dust/particulate matter collected in pollution control equipments shall be reused. Spares would be maintained in respect of all pollution control equipment. Maintenance and optimum functioning of the pollution control equipment shall be ensured by the project proponent.	<p>Complied with.</p> <p>The Project proponent has provided different types of Environmental Protection Equipment's like ESP, RABH, Bag filters etc for collection of dust/particulate matter and to reuse the same in our process. The required spares parts are also maintaining for optimum functioning of the said equipment's.</p>																					
(ix)	The project proponent shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the MSPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	<p>Complied with.</p> <p>Authorization letter No. MPCB/ATH-27/2007/2021-2022/20; dated 11th FEB 2022.</p> <p>Authorization letter No. MPCB/ATH-27/2007/2021-2022/19; dated 11th FEB 2022 for 2600 TPD cement manufacturing plant, valid up to 30th November, 2025.</p> <p>Authorization letter No. MPCB/ATH-46/2017/2023-2024/08; dated 15th MAY 2023 for Captive Power Plant, valid up to 31st August 2027.</p> <p>Copy of the Authorization is already submitted to Regional Office MoEF&CC, Shillong vide letter no. - MCL/ENV/MoEF&CC/Compliance-II/2023-24/35, dated: 16/06/2023.</p>																					
(x)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and	<p>Complied with.</p> <p>Dedicated environmental Management Cell is functioning and Environmental quality functions like Ambient Air Quality Monitoring, Stack Monitoring</p>																					



	Environmental Quality Monitoring functions. A state-of-the-art Chromium testing kit shall be maintained in the laboratory.	Emission, and Drinking Water Quality and Waste Water quality are being regularly monitored. Chromium testing kit maintained in laboratory and testing of for Surface water is also being carried out regularly. Testing report attached as Annexure-X . Also detail of Environmental Management Cell and testing equipment's details are attached an Annexure-XVI .
(xi)	All pollution control equipment in STP of the type specified by the project proponent shall be duly installed and manned full time by trained personnel appointed for the purpose.	Complied with. The Sewage Treatment Plant (STP) has been installed and the capacity of the same is 200m ³ /Day & 100m ³ /Day, and the treated water being utilized for suppresses the fugitive dust of our internal roads. The Effluent Treatment Plant (ETP) has been installed near Vehicle Work Shop and the treated water is being recycled for the same purpose. The capacity of the ETP is 25 kL/Day. The Neutralization Pit has been also installed at CPP. Rejected water generates through De-mineralization of water is being neutralized in the neutralizing pit and then used for green belt development. Drainage system and STP, ETP and NPT map are submitted earlier. All pollution control equipment in STP being operated by trained personnel.
(xii)	A six-monthly compliance status report shall be submitted to SEIAA/SEAC and Regional Office, Ministry of Environment & Forests, Govt. of India, Shillong apart from posting the same on the website of the Project proponent.	Complied with. Half yearly compliance reports along with monitoring data are being submitted to concerned officials SEIAA/SEAC and Regional Office, Ministry of Environment & Forests, Govt. of India, Shillong on the regular basis and posting the same data on the website https://topcem.in/ also.
(xiii)	Implementation of the project vis-à-vis environmental action plans shall be monitored by the Regional Office, Ministry of Environment & Forests duly assisted by the SPCB. The Regulatory Authority may revoke or suspend the clearance on the recommendation of the SEAC, if implementation of any of the above conditions is not satisfactory. The Regulatory Authority may on the recommendation of SEAC reserve the right to stipulate additional conditions, if found necessary. The Project proponent in a time bound manner shall implement these conditions too. The above conditions will be enforced,	Agreed for compliance.



	inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management & Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and Rules.	
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C. ADDITIONAL CONDITIONS

(i)	<p>The project proponent to create a good and successful plantation in the green belt area of approximately 18 hectares by using indigenous plant species like <i>Michelia Chanmpacca</i>, <i>Castanopsis sp</i>, <i>Schima wallichii</i>, <i>Mesua ferrea</i>, <i>Artocarpus hetero-phylla</i> preceded by establishing well stocked nurseries of above species in the different plots. The project proponent must accord importance & seriousness to undertake the plantation on mission mode. The plantation so create act as a model for all the industrial units located within the district.</p>	<p>Complied with Company has established a Nursery in which indigenous plant species like <i>Michelia Chanmpacca</i>, <i>Castanopsis sp</i>, <i>Schima wallichii</i>, <i>Mesua ferrea</i>, <i>Artocarpus hetero-phylla</i> has planted in different plots inside the nursery. The planted quantity of the indigenous plant species as mentioned below: -</p> <table border="1" data-bbox="853 954 1443 1224"> <thead> <tr> <th data-bbox="853 954 933 1021">SL. No.</th><th data-bbox="933 954 1252 1021">Name of the Species</th><th data-bbox="1252 954 1443 1021">Quantity Planted</th></tr> </thead> <tbody> <tr> <td data-bbox="853 1021 933 1055">1</td><td data-bbox="933 1021 1252 1055"><i>Michelia Chanmpacca</i></td><td data-bbox="1252 1021 1443 1055">150</td></tr> <tr> <td data-bbox="853 1055 933 1089">2</td><td data-bbox="933 1055 1252 1089"><i>Mesua ferrea</i></td><td data-bbox="1252 1055 1443 1089">100</td></tr> <tr> <td data-bbox="853 1089 933 1156">3</td><td data-bbox="933 1089 1252 1156"><i>Artocarpus hetero-phylla</i></td><td data-bbox="1252 1089 1443 1156">2500</td></tr> <tr> <td data-bbox="853 1156 933 1190">4</td><td data-bbox="933 1156 1252 1190"><i>Castanopsis sp</i></td><td data-bbox="1252 1156 1443 1190">70</td></tr> <tr> <td data-bbox="853 1190 933 1224">5</td><td data-bbox="933 1190 1252 1224"><i>Schima wallichii</i></td><td data-bbox="1252 1190 1443 1224">15</td></tr> </tbody> </table>	SL. No.	Name of the Species	Quantity Planted	1	<i>Michelia Chanmpacca</i>	150	2	<i>Mesua ferrea</i>	100	3	<i>Artocarpus hetero-phylla</i>	2500	4	<i>Castanopsis sp</i>	70	5	<i>Schima wallichii</i>	15
SL. No.	Name of the Species	Quantity Planted																		
1	<i>Michelia Chanmpacca</i>	150																		
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3	<i>Artocarpus hetero-phylla</i>	2500																		
4	<i>Castanopsis sp</i>	70																		
5	<i>Schima wallichii</i>	15																		



FIRE FIGHTING TRAINING REPORT

DATE: 27th July'2025

- ❖ THEME: FIRE FIGHTING TRAINING CONDUCTION
- ❖ TRAINER'S NAME: MR. PRAJJAL RAJKUMAR & Mr. GANESH QUILA
- ❖ VENUE : Community Hall
- ❖ DATE : 26.07.2025
- ❖ TIME : 4:30 PM TO 6:00 PM
- ❖ NUMBER OF PARTICIPANTS : 11 PERSONS

On 26.07.2025 from 4:30 PM to 6:00 PM at Community Hall we have conducted "FIRE FIGHTING TRAINING". Training was conducted for electrical, Instrument, Mechanical, Vigilance & Production, total 11 participants were attended the program. Main motto of the training Program is understanding of emergency preparedness and Fire Fighting Procedure. It was discussed in training after hearing the sound of Siren how & where will rush & gather and what is the next function after gather at Emergency Assembling Point.

- At the time of any emergency how to fight with fire & what precaution to be taken during that situation.
- Which type of Fire Extinguishers can use on what type of fire.
- Classification of fire and according to it explanation of types of fire.
- Explanation of Emergency preparedness as per the reference of MCL Emergency preparedness.
- Firstly know where we kept our Fire extinguishers that explanation as per reference of extinguishers report.
- Communication procedure during emergency.
- During Fire what can do or do not.
- Explanation of location where fire can catch at our factory premises.
- Introduction and function of Fire fighting tanker along with fire equipments.
- During fire accident siren alarming procedure.
- Operating procedure of Fire extinguishers & Fire fighting tanker.

❖ Rescue process-

- **One casualty- one rescuer** (Pick on back, Reverse pick on back, man crown, man catch, down stair).
- **One casualty two rescuers** (Two Hand Seat, Four Hand Seat).
- **Stretcher Rescue etc.**

Finally we have conducted practical demo programme on fire by use of fire fighting equipments like Fire extinguishers, Fire fighting tanker & given the training to all Bombay Security staff and participants from various department, each and every one can operate the extinguishers and understood fire fighting process. Finally we have seen most of the persons learnt well & satisfactory as practice training will be continued for further progress.



SAFETY OFFICER
[Signature]

FIRE MOCKDRILL & EMERGENCY PROGRAMME

DATE: 24/05/2025

THEME: MOCKDRILL ON FIRE

CONDUCTED BY	: Safety department.
VENUE	: Captive Power Plant.
DATE	: 24/05/2025
TIME	: 4:50 PM -5:30 PM
NUMBER OF ATTENDED PERSONS	: 56 Persons
NAME OF INFORMER	: Shift In-charge
ALARM RAISED BY	: Boiler desk person (after got the information)
FIRE CAUGHT	: At around 4:48 PM
FIRE -FIGHTING & RESCUE TEAM REACHED:	At around 4:53 PM
TOTAL LIVING PERSONS	: In Fire caught place 03 Persons.
PERSONS EVACUATED TO	: Safe zone within 6 minutes.
LAST PERSON EVACUATED	: At around 6:01 PM
FALLING THREE PROCESS	: Head counting started during evacuation Simultaneously.
TOTAL RESCUER	: 03 Persons
DECLARATION	: After getting everyone in counting Extinguished the fire & the area was declared safe and total 03 persons were safely evacuated.

On 24/05/2025 **at around 4:50 PM to 5:30 PM at Vehicle workshop** "Mock Drill was conducted on Fire" total 56 Persons were involved from CPP, Security and Safety & Vigilance.

Main Motto of the training programme was in case of any fire emergency in night time how to fight and extinguish the fire in darkness and how to handle the situation and evacuate the persons from fire area, as well as practically shown the Drill to involved persons along with rescue systems of casualties. We shown to participants about rescue procedure, if found senseless due to fire accidents then immediately how to rescue the injured persons (casualties) & also shown its procedure.

Mock Drill- Suddenly Alarm was raised by CCR CPP shift person after got the information from Boiler area. According to siren & information by Shift person Fire fighting team along with Fire fighting tanker reached the spot within 5 minutes, workers were evacuated from Hot Zone to Cold zone i.e safe zone, one person at around 6:01 PM he evacuated from there he was last men as per information of our 1st responders team Fire caught at boiler bad materials discharge area. During rescue simultaneously head counting also continued at safe zone by helping of 'Falling Three' procedures and finally observed total casualties were removed from fire caught area. After safely evacuation of workers immediately Fire extinguishing process had started, due to major fire it was extinguished by Fire Fighting Tanker, Extinguishing Media is water.



Medical team also in ready position during emergency for help and further first-aid of causalities, after extinguished and controlled, Safety officer observed & investigated the area and taken the report of property lost & damage as well as after mitigation Safety officer had declared that area is safe.

- 1) TURN OUT: Employees were taught how to fight with fire at the time of Emergency and given knowledge about evacuation process & First Aid knowledge also imparted them.
- 2) SAFE ZONE ASSEMBLY: Employees were taught about why and how gathered at assembling point also introduced "COLD/SAFE ZONE".
- 3) VICTIMS: Demonstrations for treating victims & shown to everyone. All the victims were treated & transported for Medical Aid to the nearby facility by the employees of MCL and they were aided by the Medical staff.
- 4) ATTENDANCE & CHECKING OF DAMAGE PROPERTY & LIVES LOST AND REPORTING. After the drill Safety officer with his team visited the area & estimated the damages.
- 5) COMMUNICATION: Safety office makes the communication to concern as well as informed to unit head about the incident and for further action.

CONCLUSION: Training is important part for help to educate of employees for make potential and competent in this regards the Fire Mock Drill was held to spread knowledge to our employees as well as participants also can understand and gain the knowledge about Fire mock drill, it was observed most of the workers activated while siren rang and every involved persons learned the lesson and became active.



Mock Drill

FIR

Dept : Vigilant

Meghalaya Cements Ltd.

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

Attendance Sheet for IMS/EnMS/External Agency Training

Doc No: MCL/IMS&EnMS/HR&...

Rev No.:01

Date: 01.04.2016

Training Details : *Mock Drill on Fire*
Agency : *In- House*Date : *24-05-2015*Time : *03pm to 5:30 pm*Name of Trainers : *Mr. Prajat Rajkumar - Safety & Vigilance.*
Attendance Record:

Sl. No.	Emp. Code	Employee Name	Department	Designation	Signature
1		Bhaben Nath	HR&A	MCL Security	<i>Bfa</i>
2		Tubershwar Nath	"	"	<i>T.Nath</i>
3		Arup Borah	"	"	<i>A.Borah</i>
4		Nimrat Chacko	"	"	<i>N.C.</i>
5		Amal Tahar	"	"	<i>Amal</i>
6		Moortu Kt. Borah	"	"	<i>Moortu</i>
7		Zomir Shu	"		<i>Zomir</i>
8		Bobby Kumar	"	"	<i>Bobby</i>
9		Nipon Goyari		BSS	<i>Nipon</i>
10		Sudebti Baruji		BSS	<i>Sudebti</i>
11		Dulangng Sengon		B.S.S	<i>Dulangng</i>
12		Jit Kumar Singh		MCL	<i>Jit</i>

Page 1 of 2



Sl. No.	Emp. Code	Employee Name	Department	Designation	Signature
13		Baikendru	HRD	MEL	Baikendru
14		Tejendra Chaitu	✓	✓	Tejendra Chaitu
15		Biplab Kumar		BSS	Biplab Kumar
16		Kangkan Nath	CPP	operator	Kangkan Nath
17		Khurshidpuri	Minty	Driver	Khurshidpuri
18		Bikash		Rubber contractor	Bikash
19		Gobin.Bonnia		u	Gobin
20		Asish Sinha		Tahir contractor	Asish Sinha
21		Bisoy			Bisoy
22		Bapan Pandey			Bapan Pandey
23		Silom Prasad			Silom Prasad
24		Sujen Banerjee			Sujen Banerjee
25		Sonaja Roy	Tahir	Mechanical	Sonaja Roy
26		Mani Sinha			Mani Sinha
27		Prachum Ravid			Prachum Ravid
28		Deepak Tariq			Deepak Tariq
29		Ravi Roy			Ravi Roy
30		Shifal			Shifal

Name in Annexure

31. Ranchor Riong Tareekhan

32. Kunal Roy CPP HOD Kunal

33. Farzana Alach CPP Page 2 of 2 Farzana



34. Jayadrata Samanta

35. Sunil Barmal

36. Anumodhna Swain

37. Dinesh Verma

38. Binod Maurya

39. Geetam

40. Ankant Saurabh

41. Kamlesh Sharma

42. Jyoti Singh

43. Raksh Rout

44. Kuntal Pramanik

45. Sopam Saha

46. Praveen Kr Singh

47. Dibyendu Nath

48. Aruji Pramanik

49. Rahul Kumar

50. Ashish Kumar

51. Raheen Kumar

52. Debi Suman

53. Rijdeep Begam

54. Rupam Bora

55. Priyanka Sutri

56. Kunti Nandyal



MEGHALAYA CEMENTS LIMITED
LOCATION & DETAILS OF FIRE EXTINGUISHERS

DOC NO: MCL/SA/FE/2014-15

LOCATION: - CCR BUILDING

REVIEWED ON: 30.08.2025



SL.N O	AREA NAME	DEPARTME NT	EXTING. SL.NO	LOCATION	CYLINDER TYPE	PRESSURE REGULATO R	TARE WEIGHT	CAPACITY/ NET WEIGHT	GROSS WEIGHT	PHYSICAL WEIGHT	DATE OF REFILLING	NEXT DUE DATE OF REFILING	REMARKS
1	QC (Laborator y)	QC	MCL-190	Right side on the wall at corridor.	ABC	✓	N/A	6 Kg	N/A	N/A	28.04.2025	27.04.2026	
2			MCL-24	Way to corridor right side	CO2	N/A	6.15 Kg	2.27 Kg	8.45 Kg	8.59 Kg	21.08.2025	20.08.2026	
3			MCL-174	Inside Cabin of Vice President.	ABC	✓	N/A	1 Kg	N/A	N/A	29.05.2025	28.05.2026	
4	LC-3 Transfor mer	Electrical	MCL-171	Inside QC Laboratory	CO2	N/A	8.4 Kg	3 Kg	11.4 Kg	12 Kg	02.02.2025	01.02.2026	
5			MCL-70	Inside CCR ground floor LC-3 transformer.	CO2	N/A	5.3 Kg	2.27 Kg	7.57 Kg	7.3 Kg	02.02.2025	31.01.2026	
6	CCR ground floor	HR&A (Security)	MCL-239	CCR ground floor inside the Fire fighting Extinguisher frame	DCP	N/A	N/A	2 Kg	482 gm	482 gm	12.02.2025	11.02.2026	
7			MCL-192	CCR ground floor inside the Fire fighting Extinguisher frame	ABC	✓	N/A	6 Kg	N/A	N/A	25.03.2025	24.03.2026	
8			MCL-60	Same as above	CO2	N/A	4.1 Kg	2.27 Kg	6.48 Kg	6.48 Kg	25.04.2025	24.04.2026	
9			MCL-342	Same as above	CO2	N/A	5 Kg	2 Kg	7 Kg	6.9 Kg	11.04.2025	10.04.2026	
10			MCL-227	Same as above	CO2	N/A	15.4 Kg	6.5 Kg	21.9 Kg	82.1 Kg	09.10.2024	08.10.2025	
11			MCL-226	Inside of cable gallery infront of Mechanical office.	CO2	N/A	15.1 Kg	6.5 Kg	21.6 Kg	22.7 Kg	05.04.2025	04.04.2026	
12			MCL-326	CCR ground floor	DCP	N/A	N/A	50 Kg	N/A	N/A	18.05.2025	17.05.2026	
13			MCL-328	Same as above	DCP	N/A	N/A	50 Kg	N/A	N/A	18.05.2025	17.05.2026	
14			MCL-327	Same as above	CO2	N/A	6.1 Kg	2 Kg	8.1 Kg	8.3 Kg	18.05.2025	17.05.2026	
15			MCL-329	Same as above	CO2	N/A	5.8 Kg	2 Kg	7.8 Kg	7.8 Kg	18.05.2025	17.05.2026	
16			MCL-183	Same as above	ABC	✓	N/A	6 Kg	N/A	N/A	06.08.2025	05.08.2026	
17			MCL-185	Same as above	ABC	✓	N/A	6 Kg	N/A	N/A	06.08.2025	05.08.2026	
18			MCL-10	Same as above	ABC	✓	N/A	5 Kg	N/A	N/A	25.04.2025	24.04.2026	
19	CCR 1st floor	Electrical	MCL-220	LC-3 panel room	CO2	N/A	15.3 Kg	6.5 Kg	21.8 Kg	21.8 Kg	28.02.2025	27.02.2026	
20			MCL-226	At LC-3 Cabic gallery.	CO2	N/A	15.1 Kg	6.5 Kg	21.6 Kg	22 Kg	05.04.2025	04.04.2026	
21	CCR 1st floor	Instrument ation	MCL-36	Infront of Instrument office	DCP	N/A	Gas Cartridge 520 gm	5 Kg	Gas Cartridge 640 gm	Gas Cartridge 675 gm	28.08.2025	27.08.2026	



22	MCL-222	At the end of DBR Panel	CO2	N/A	15.1 Kg	6.5 Kg	21.6 Kg	22.7 Kg	05.04.2025	04.04.2026	
23	CCR 1st floor	Instrumentation	MCL-143	Infront of Instrument office	CO2	N/A	6.40 Kg	2.27 Kg	8.67 Kg	9 Kg	31.07.2025	30.07.2026	
24			MCL-38	Entrance of the door at Instrument panel room	CO2	N/A	10.06 Kg	4.5 Kg	15.1 Kg	16 Kg	01.03.2025	30.03.2026	
25			MCL-51	Inside Instrument office	CO2	N/A	6.1 Kg	3 Kg	8.1 Kg	8.3 Kg	26.03.2025	25.03.2026	
26			MCL-323	Inside Instrument Lab Office	DCP	N/A	Gas cartridge 846 gm	6 Kg	Gas cartridge 966 gm	Gas cartridge 966 gm	05.10.2024	04.10.2025	
27			MCL-233	Inside of Environment office	CO2	N/A	6.1 Kg	2 Kg	8.1 Kg	8.3 Kg	27.03.2025	26.03.2026	
28			MCL-53	Right side on the gallery of CCR	CO2	N/A	6.45 Kg	2.27 Kg	8.72 Kg	8.7 Kg	28.02.2025	27.02.2026	
29	CCR 2nd floor	Production	MCL-145	CCR inside the control room	CO2	N/A	10.6 Kg	4.5 Kg	15.1 Kg	15.5 Kg	25.01.2025	24.01.2026	
30			MCL-230	Inside of DCS Control room	CO2	N/A	6.1 Kg	2 Kg	8.1 Kg	8.7 Kg	01.01.2025	31.12.2026	
31			MCL-LMV-27	Right side on the gallery of Sr. Vice President room	ABC	v	N/A	1 Kg	N/A	N/A	25.10.2024	24.10.2025	
32			MCL-LMV-38	Inside Cabin of Sr. Vice President room.	ABC	v	N/A	1 Kg	N/A	N/A	22.10.2024	20.10.2025	
33	CCR 3rd Floor	Mechanical	MCL-69	Infront of Mechanical office	ABC	v	N/A	5 Kg	N/A	N/A	28.09.2024	27.09.2025	
34			MCL-128	Inside Mechanical office beside refreshment counter.	CO2	N/A	5.3 Kg	2 Kg	7.3 Kg	7.3 Kg	01.02.2025	31.01.2026	
35			MCL-314	Inside of Mechanical office	ABC	v	N/A	1 Kg	N/A	N/A	28.02.2025	27.02.2026	
36			MCL-175	Infront of Vice President (P&M) Cabin.	ABC	v	N/A	1 Kg	N/A	N/A	21.10.2024	20.10.2025	
37			MCL-194	Left side wall of Mechanical office	CO2	N/A	10.2 Kg	4.5 Kg	14.7 Kg	16 Kg	26.03.2025	25.03.2026	

CHECKING CRITERIA

- * CO2 Extinguisher and CO2 Gas cartridge which have weight less than 10% are to be rejected
- * Extinguisher CO2 - to be checked through gross weight
- * DCP Extinguisher - only gas cartridge weight
- * Mechanical Foam - only Gas cartridge weight
- * ABC Extinguisher - Check by only pressure regulator, in the regulator needle should within green zone [if ok Mark ✓]
- * If any Extinguisher found empty / Pressure low / Body corrosion then necessary to send refilling through checking cylinder condition.
- * Hydrostatic Test will be done every five years / if necessary as per condition of extinguisher body .

MONITORED BY

CHECKED BY

APPROVED BY



MEGHALAYA CEMENTS LIMITED
LOCATION & DETAILS OF FIRE EXTINGUISHERS

DOC NO: MCL/SA/FE/2014-15

LOCATION: - COAL MILL-I & 2

REVIEWED ON: 30.08.2025



SL. NO	AREA NAME	DEPARTM ENT	EXTING. SL. NO	LOCATION	CYLINDE R TYPE	PRESSURE REGULAT OR	TARE WEIGHT	CAPACI TY/NET WEIGHT	GROSS WEIGHT	PHYSISA L WEIGHT	DATE OF REFILLIN G	NEXT DUE DATE OF REFILIN	REMARKS
1	Coal Mill 1 & 2	Production	MCL-183	Coal Mill -01, 1st floor inside the Extinguishers frame.	ABC	✓	N/A	9 Ltrs	N/A	N/A	25.10.2024	24.10.2025	
2			MCL-339	Same as above	ABC	✓	N/A	6 Kg	N/A	N/A	22.04.2025	21.04.2026	
3			MCL-181	Same as above	ABC	✓	N/A	6 Kg	N/A	N/A	28.12.2024	27.12.2025	
4			MCL-34	Same as above	DCP	N/A	Gas Cartridge 900 gm	10 Kg	Gas Cartridge 1100 gm	Gas Cartridge 1100 gm	28.02.2025	27.02.2026	
5			MCL-54	Same as above	CO2	N/A	11.88 Kg	4.5 Kg	16.49 Kg	16 Kg	22.11.2024	21.11.2025	
6			MCL-74	Same as above	CO2	N/A	19.2 Kg	9 Kg	28.2 Kg	29 Kg	28.03.2025	27.03.2026	
7			MCL-102	Same as above	CO2	N/A	19.1 Kg	9 Kg	28.1 Kg	28 Kg	13.06.2025	12.06.2026	
8			MCL-160	Same as above	DCP	N/A	Gas Cartridge 2111 gm	25 Kg	Gas Cartridge 2610 gm	Gas Cartridge 2611 gm	27.12.2024	26.12.2025	
9			MCL-176	Same as above	DCP	N/A	Gas Cartridge 1167 gm	9 Kg	Gas Cartridge 1367 gm	Gas Cartridge 1374 gm	28.11.2024	27.11.2025	

CHECKING CRITERIA

- * CO2 Extinguisher and CO2 Gas cartridge which have weight less than 10% are to be rejected
- * Extinguisher CO2 - to be checked through gross weight
- * DCP Extinguisher - only gas cartridge weight
- * Mechanical Foam - only Gas cartridge weight
- * ABC Extinguisher - Check by only pressure regulator, in the regulator needle should within green zone [if ok Mark ✓]
- * If any Extinguisher found empty / Pressure low / Body corrosion then necessary to send refilling through checking cylinder condition.
- * Hydrostatic Test will be done every five years / if necessary as per condition of extinguisher body .

Emergency exit - 01 No

Total Fire Extinguisher - 9 Nos

Total Fire Hose - 3 Nos

Total Hose Box- 3 Nos.

Total Riser line - 3 Nos

MONITORED BY

CHECKED BY

APPROVED BY



MEGHALAYA CEMENTS LIMITED
LOCATION & DETAILS OF FIRE EXTINGUISHERS

DOC NO: MCL/SA/FE/2014-15

LOCATION: - BOILER HOUSE - CPP



REVIEWED ON - 30.08.2025

SL. NO	AREA NAME	DEPARTMENT	EXTINGUISHER SL. NO	LOCATION	CYLINDER TYPE	PRESSURE REGULATOR	TARE WEIGHT	CAPACITY NET WEIGHT	GROSS WEIGHT	PHYSICAL WEIGHT	DATE OF REFILLING	NEXT DUE DATE OF REFILLING	REMARKS
1	BOILER HOUSE GROUND FLOOR	CPP	MCL-97	Near the FD-Fan (HT).	CO2	N/A	19.4 Kg	9 Kg	28.4 Kg	32 Kg	27.11.2024	26.11.2025	
2			MCL-91	Ground floor on the column.	CO2	N/A	11.68 Kg	4.5 Kg	16.18 Kg	15.5 Kg	28.02.2025	27.02.2026	
3			MCL-05	1st floor beside staircase.	FFF Foam	N/A	N/A	9 Ltr	N/A	N/A	28.02.2025	27.02.2026	
4			MCL-106	1st floor beside of staircase.	ABC	V	N/A	5 Kg	N/A	N/A	27.11.2024	26.11.2025	
5			MCL-104	At 2nd floor of Boiler House.	ABC	V	N/A	5 Kg	N/A	N/A	01.01.2025	30.12.2026	

CHECKING CRITERIA

- * CO2 Extinguisher and CO2 Gas cartridge which have weight less than 10% are to be rejected
- * Extinguisher CO2 - to be checked through gross weight
- * DCP Extinguisher - only gas cartridge weight
- * Mechanical Foam - only Gas cartridge weight
- * ABC Extinguisher - Check by only pressure regulator, in the regulator needle should within green zone [if ok Mark ✓]
- * If any Extinguisher found empty / Pressure low / Body corrosion then necessary to send refilling through checking cylinder condition.
- * Hydrostatic Test will be done every five years / if necessary as per condition of extinguisher body .

Total Emergency exit - 01 No

Total Fire Extinguisher - 5 Nos

Total Fire Hose - 8 Nos

Total Hose Box- 7 Nos.

Total Riser line - 7 Nos

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APPROVED BY



MEGHALAYA CEMENTS LIMITED LOCATION & DETAILS OF FIRE EXTINGUISHERS												DOC NO: MCL/SA/FE/2014-15		
SL. NO	AREA NAME	DEPARTMENT	EXTING. SL. NO	LOCATION	CYLINDER TYPE	PRESSURE REGULATOR	TARE WEIGHT	CAPACITY/ NET WEIGHT	GROSS WEIGHT	PHYSICAL WEIGHT	DATE OF REFILLING	NEXT DUE DATE OF REFILLING	REMARKS	
1	CHP	CPP	MCL-47	CHP Building 2nd floor.	CO2	N/A	19.5 Kg	9 Kg	28.5 Kg	26.5 Kg	28.02.2025	27.02.2026		
2	Coal Yard	CPP	MCL-148	On the left side column.	CO2	N/A	Gas Cartridge 400 gm	9 Kg	Gas Cartridge 460 gm	Gas Cartridge 472 gm	28.02.2025	27.02.2026		
3	Bad material & Charcoal Godown		MCL-118	Outside on the sheet near entrance door 2.	Mechanic al foam	N/A	Gas Cartridge 440 gm	9 Ltrs	Gas Cartridge 500 gm	Gas Cartridge 506 gm	28.02.2025	27.02.2026		
4	Compressor House		MCL-96	Inside the compressor room.	CO2	N/A	19.4 Kg	9 Kg	28.4 Kg	31 Kg	28.02.2025	27.02.2026		
5			MCL-88	MCC Room for Comp/Ash handling/ESP.	CO2	N/A	7.23 Kg	2.27 Kg	9.50 Kg	9.30 Kg	08.02.2025	07.02.2026		
6	Turbine House ground floor	CPP	MCL-85	Ground floor near Fire Sand bucket stand.	CO2	N/A	19.6 Kg	9 Kg	28.6 Kg	31.5 Kg	28.02.2025	27.02.2026		
7	Turbine House 1st floor in MCC panel room		MCL-87	On the wall beside entrance door.	CO2	N/A	6.35 Kg	2.27 Kg	8.62 Kg	8.81 Kg	08.02.2025	09.02.2026		
8			MCL-99	Inside the MCC Room door side of turbine.	CO2	N/A	19.5 Kg	9 Kg	28.5 Kg	30.4 Kg	31.08.2024	30.08.2025		
9			MCL-89	On the side wall near Exit side.	CO2	N/A	6.5 Kg	2.27 Kg	8.77 Kg	8.15 Kg	08.02.2025	07.02.2026		
10	Turbine House 1st floor		MCL-81	On the floor beside MOT	CO2	N/A	19.3 Kg	9 Kg	28.3 Kg	30 Kg	08.02.2025	07.02.2026		
11			MCL-245	1st floor of T.G building near landing platform of staircase.	Mechanica l foam	N/A	Gas cartridge 1160 gm	50 Ltrs	Gas cartridge 1460 gm	Gas cartridge 1581 gm	05.12.2024	04.12.2025		
12			MCL-83		CO2	N/A	10 Kg	4.5 Kg	14.5 Kg	15.8 Kg	28.02.2025	27.02.2026		
13	Turbine House 2nd floor		MCL-21	Near Tea stall.	CO2	N/A	19.4 Kg	9 Kg	28.4 Kg	28.4 Kg	28.02.2025	27.02.2026		
14			MCL-120	Outside wall of CCR (Exit door side).	CO2	N/A	5.1 Kg	2.27 Kg	7.37 Kg	8.5 Kg	09.02.2025	08.02.2026		
15	CPP Office - 2nd floor		MCL-95	Office Gallery	CO2	N/A	6.25 Kg	2.27 Kg	8.52 Kg	7.8 Kg	28.02.2025	27.02.2026		



16	DCS Control Room- 2nd floor	CPP	MCL-79	Inside the CCR	CO2	N/A	11.85 Kg	4.5 Kg	16.35 Kg	17 Kg	01.01.2025	31.12.2026	
17	D.M PLANT		MCL-144	Beside the office	CO2	N/A	6.35 Kg	2.27 Kg	8.62 Kg	9.36 Kg	26.10.2024	25.10.2025	
18	CPP LABORATORY		MCL-LMV-25	Inside the CPP Laboratory, front side of partition wall.	ABC	✓	N/A	1 Kg	N/A	N/A	29.07.2025	28.07.2026	
19	WATER TREATMENT MCC PANEL ROOM		MCL-113	Inside the panel room	CO2	N/A	6.35 Kg	2.27 Kg	8.62 Kg	8.76 Kg	28.02.2025	27.02.2026	
20	INSIDE CHEMICAL STORAGE ROOM		MCL-157	Beside entrance door inside the room.	CO2	N/A	20.65 Kg	9 Kg	29.65 Kg	35 Kg	29.03.2025	28.03.2026	
21	PUMP SHED		MCL-20	Entrance way of Pump shed.	CO2	N/A	19.8 Kg	9 Kg	28.8 Kg	32 Kg	22.08.2025	21.08.2026	

CHECKING CRITERIA

- * CO2 Extinguisher and CO2 Gas cartridge which have weight less than 10% are to be rejected
- * Extinguisher CO2 - to be checked through gross weight
- * DCP Extinguisher - only gas cartridge weight
- * Mechanical Foam - only Gas cartridge weight

Total Riser - 4 Nos

Total Fire Extinguisher - 21 Nos

Total Fire Hose - 4 Nos

Total Hose Box- 4 Nos.

Total Emergency Exit - 3 Nos

* ABC Extinguisher - Check by only pressure regulator, in the regulator needle should within green zone [if ok Mark ✓]

* If any Extinguisher found empty / Pressure low / Body corrosion then necessary to send refilling through checking cylinder condition.

* Hydrostatic Test will be done every five years / if necessary as per condition of extinguisher body .

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CHECKED BY

APPROVED BY



MEGHALAYA CEMENTS LIMITED LOCATION & DETAILS OF FIRE EXTINGUISHERS													
DOC NO: MCL/SA/FE/2014-15													
LOCATION: - LC-2													
REVIEWED ON: 30.08.2025													
SL.N O	AREA NAME	DEPARTMENT	EXTINUIS HER SL. NO	LOCATION	CYLINDER TYPE	PRESSURE REGULATOR	TARE WEIGHT	CAPACITY NET WEIGHT	GROSS WEIGHT	PHYSICAL WEIGHT	DATE OF REFILLING	NEXT DUE DATE OF REFILLING	REMARKS
1	LC-2	Electrical	MCL-22	Inside the room left side on the wall	CO2	N/A	11.77 Kg	4.5 Kg	16.27 Kg	15.0 Kg	28.02.2025	27.02.2026	
2			MCL-11	On the wall near emergency Exit door	CO2	N/A	10.5 Kg	4.5 Kg	15.0 Kg	15 Kg	28.02.2025	27.02.2026	
3			MCL-110	Inside the M.V drive room	CO2	N/A	6.45 Kg	2.27 Kg	8.72 Kg	9 Kg	13.06.2025	12.06.2026	
4			MCL-23	Inside the DCS room in front of door.	CO2	N/A	6.6 Kg	2.27 Kg	8.87 Kg	9 Kg	28.02.2025	27.02.2026	
5			MCL-130	Inside the transformer room left side on the wall of Pre-heater MV drive No-1 at ground floor.	CO2	N/A	5.4 Kg	2 Kg	7.4 Kg	7.5 Kg	27.10.2024	26.10.2025	
6			MCL-131	Inside the transformer room left side on the wall of Pre-heater MV drive No-2 at ground floor.	CO2	N/A	5.3 Kg	2 Kg	7.3 Kg	7.5 Kg	27.10.2024	26.10.2025	
7			MCL-215	Left side on the wall 441-FN-1 P/H-2.	CO2	N/A	11.6 Kg	4.5 Kg	15.1 Kg	17 Kg	05.04.2025	04.04.2026	
8			MCL-216	Inside the DCS room	CO2	N/A	9.9 Kg	4.5 Kg	14.4 Kg	15.02	05.04.2025	04.04.2026	
9			MCL-132	1st floor inside transformer room left side on the wall.	CO2	N/A	5.2 Kg	2 Kg	7.2 Kg	7.5 Kg	27.10.2024	26.10.2025	

CHECKING CRITERIA

- * CO2 Extinguisher and CO2 Gas cartridge which have weight less than 10% are to be rejected
- * Extinguisher CO2 - to be checked through gross weight
- * DCP Extinguisher - only gas cartridge weight
- * Mechanical Foam - only Gas cartridge weight
- * ABC Extinguisher - Check by only pressure regulator, in the regulator needle should within green zone [if ok Mark ✓]
- * If any Extinguisher found empty / Pressure low / Body corrosion then necessary to send refilling through checking cylinder condition.
- * Hydrostatic Test will be done every five years / if necessary as per condition of extinguisher body .

Total Fire Extinguisher - 09 Nos

Total Emergency Exit - 01 No

MONITORED BY

CHECKED BY

APPROVED BY





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



Ref.: -MCL/ENV/CGWB/Comm./2024-25/12

Date: 08.06.2024

To,

The Regional Director

Central Ground Water Board,
4P7C+7RQ, NH-37, OPP-ISBT,
Betkuchi, Gaurchuk,
Guwahati, Assam.

Sub: - Submission of Action Taken Report on Rainwater harvesting measures implemented by Meghalaya Cements Limited at Village -Thangskai.

Ref: - Report issued by Central Ground Water Board, Regional Office- Guwahati in December, 2023.

Dear Sir,

With reference to subject cited above, we are hereby submitting the Action Taken Report on Rainwater harvesting measures as per recommendation given by you though mail on 13th December-2023 (report enclosed). Further we wish to inform you that we have constructed appropriate numbers of storage tank to catch & use of the roof top rain water and established the Piezometer to monitor the ground water level & quality in our 2600TPD Cement Plant & 31.05 Ha Limestone Mines to comply the EC Stipulation.

Detail layout of Storage tanks along with roof area, roof materials, volume of rain water and number of recharge structures are attached herewith for your kind consideration.

On view of the above we request you to kindly provide us closure report on Rainwater harvesting measures implemented by the company.

Thanking You Sir,

Yours Faithfully,

For *Meghalaya Cements Limited*

Authorised Signatory

Encl: as above.



*21/6/24
Dispatcher
Government of India
Central Ground Water Board
Assam Eastern Region
Betkuchi (Opp.-ISBT)
Guwahati-781135*



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Web : www.topcem.in

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Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District: East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : +91 89742 17765 / 70850 58469 / 98625 09599
E-mail : meghalaya@topcem.in

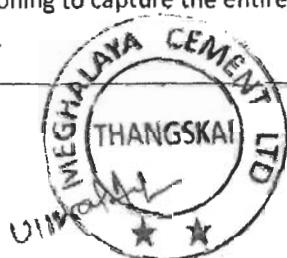


Action Taken Report

Meghalaya Cements Limited

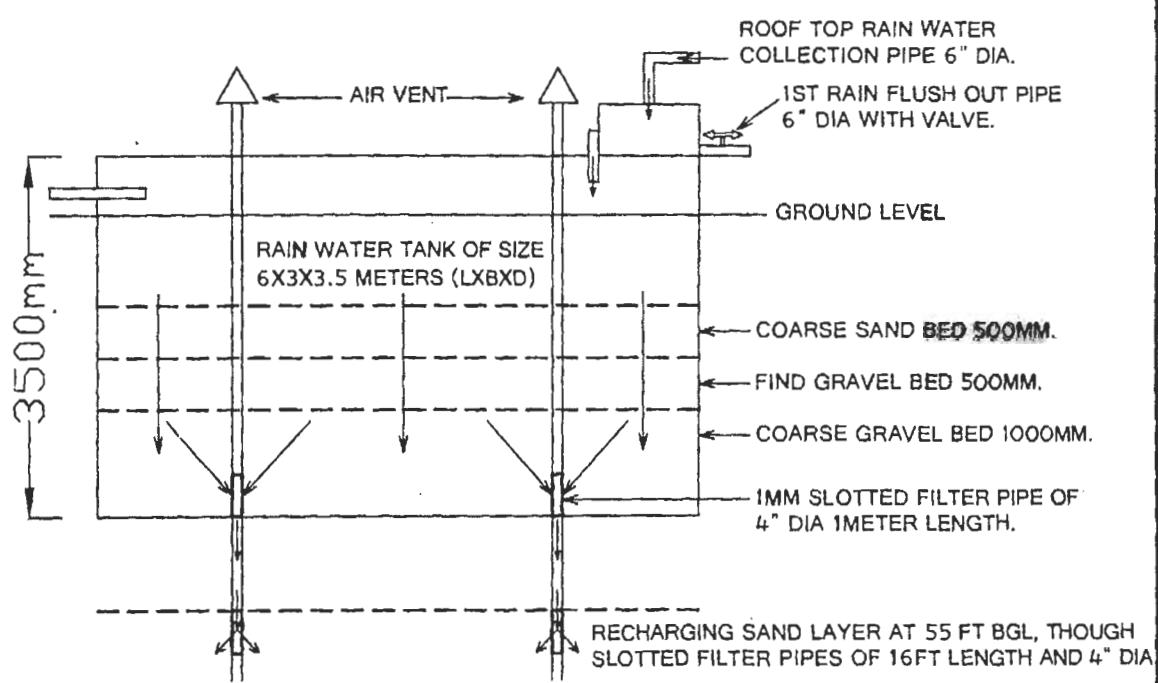
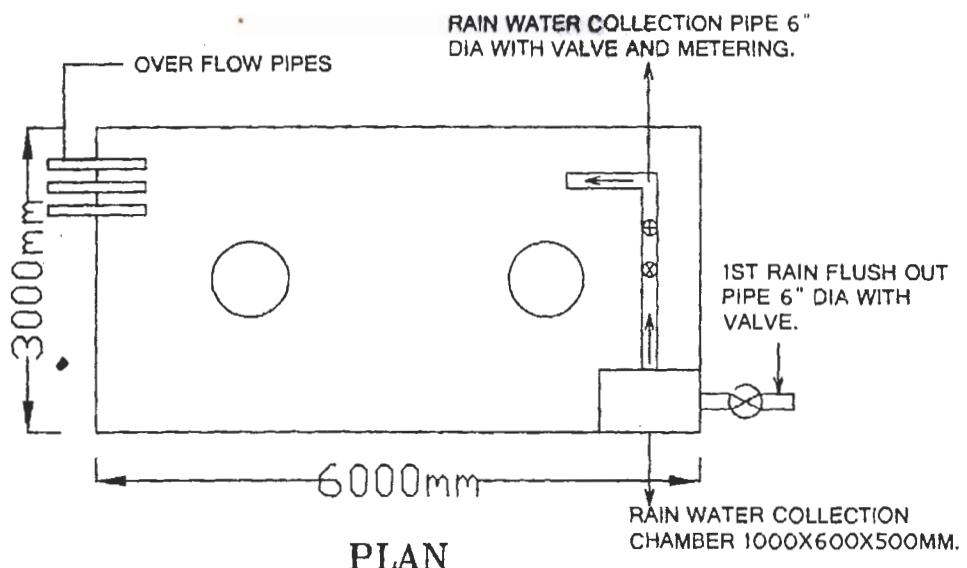
Details of Storage tank along with roof area, roof materials, volume of rain water and number of recharge structures on Rain water Harvesting measures implemented by M/s Meghalaya Cements Limited at Village- Thangskai, Po- Lumshnong, Dist- East Jaintia Hills, Meghalaya to comply the EC stipulation of 2600 TPD Cement Plant & 31.05 Ha Limestone Mines:-

SL. No.	Queries	Reply or Clarification
1	What is the total roof area of the entire site?	Raw Material Shed area- 31557.42 sqmtr & Residential Colony building roof area- 4777.194 sqmtr Total roof area is 36334.614 sqmtr.
2	How many sectors are in the project area and name? (i.e., raw material yard, colony building, etc.)	There are two sectors i.e raw material yard and colony building.
3	What is the roof area in each sector and what is the roof of materials?	Raw Material Shed area- 31557.42 sqmtr Residential Colony building roof area- 4777.194 sqmtr. CGI Sheets are used for Raw Material Shed and RCC for Colony building.
4	What is the volume of rain water in each sector and how many storage tanks you have already built in each sector?	Volume of rain water For Raw Material Shed area = 31557.42 * 6.683 * 0.80 = 168718.6 m ³ For Residential Colony building = 4777.194 * 6.683 * 0.80 = 25540.79 m ³ 01 storage tank has made for Raw Material Shed area and 02 storage tanks has made for Colony building. Additional 2 storage tanks constructed newly at WHRS Area.
5	How many storage tanks you planned to construct to capture the entire volume of rain water in how many days?	So far total 05 nos. of Storage tank start functioning to capture the entire volume of rain water.

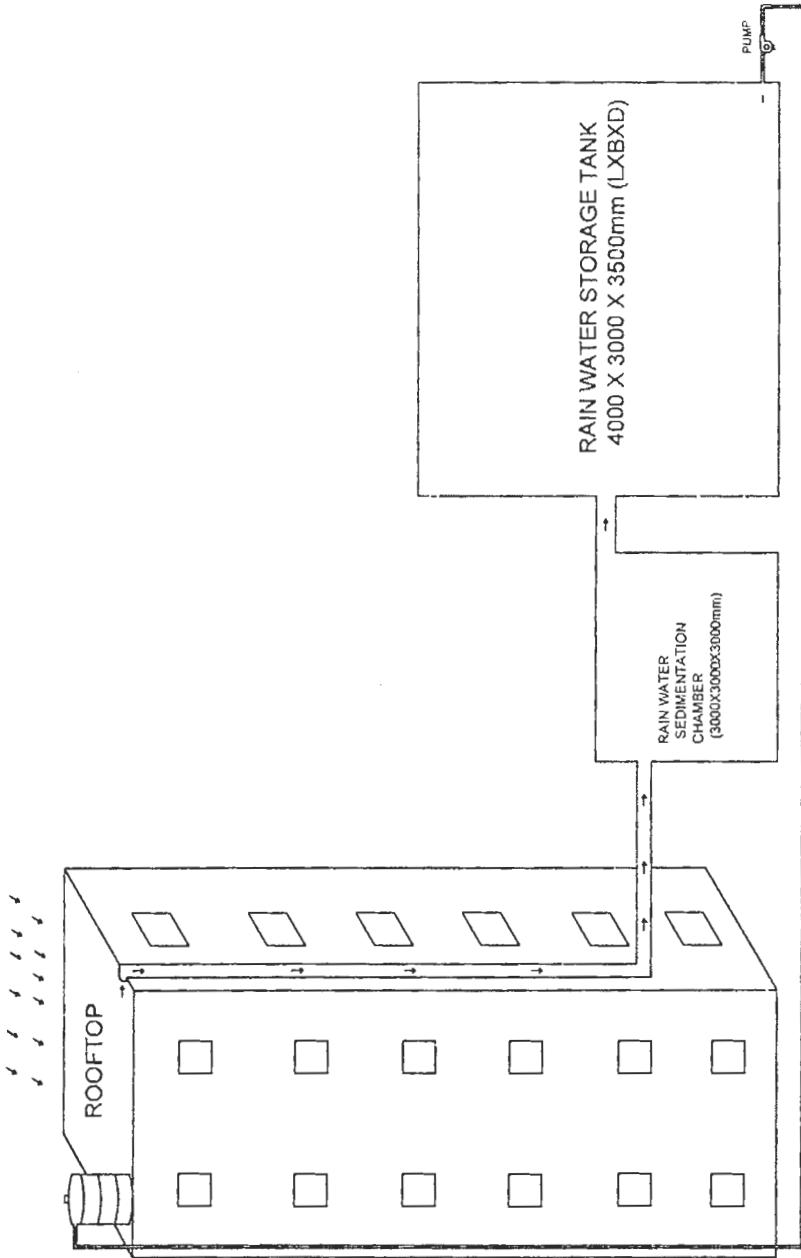


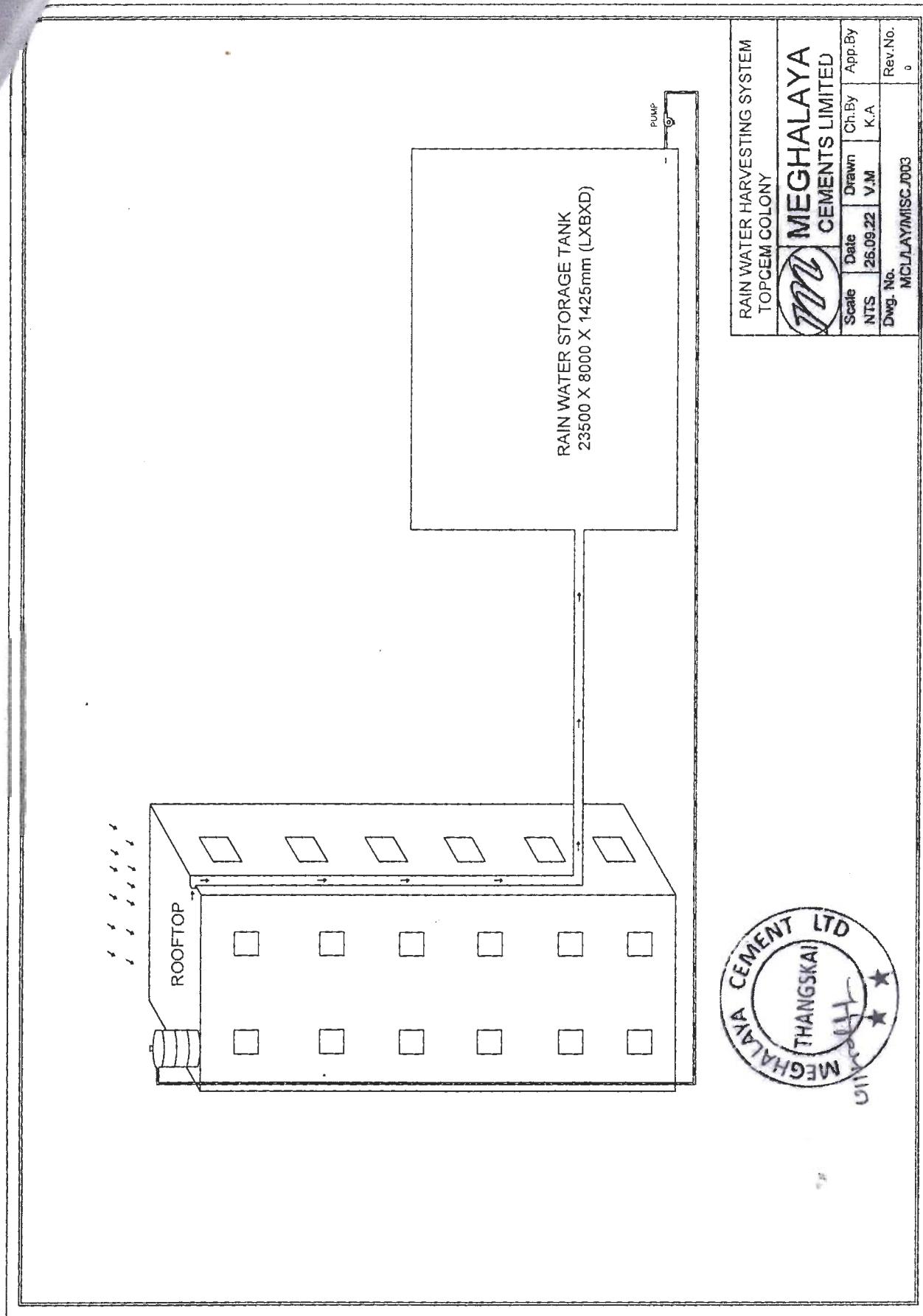
6	How many recharge structures you have constructed to recharge what volume of water?	05 no. of recharge structures with total 1863.49 m ³ capacity have been constructed to recharge the water. All are operational. Collected rain water is being used in process.
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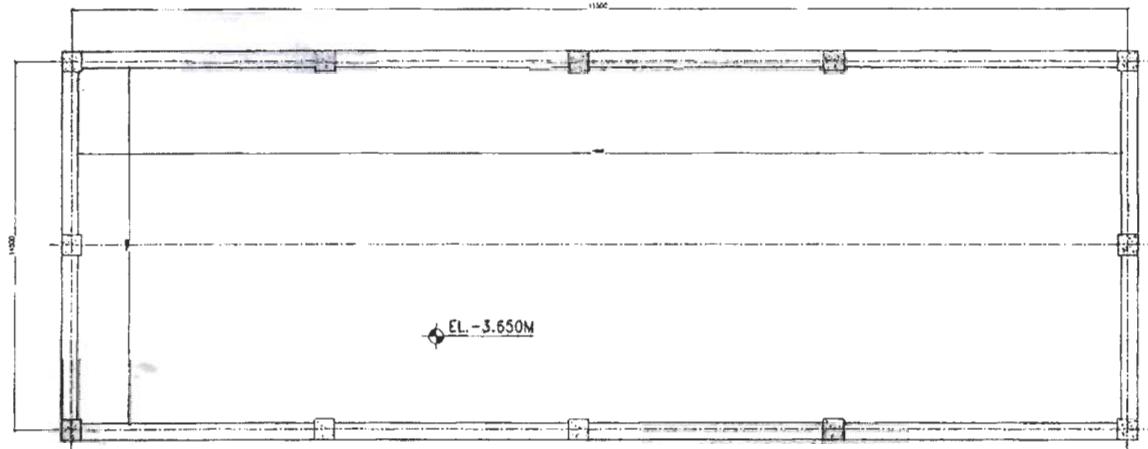


ELEVATION

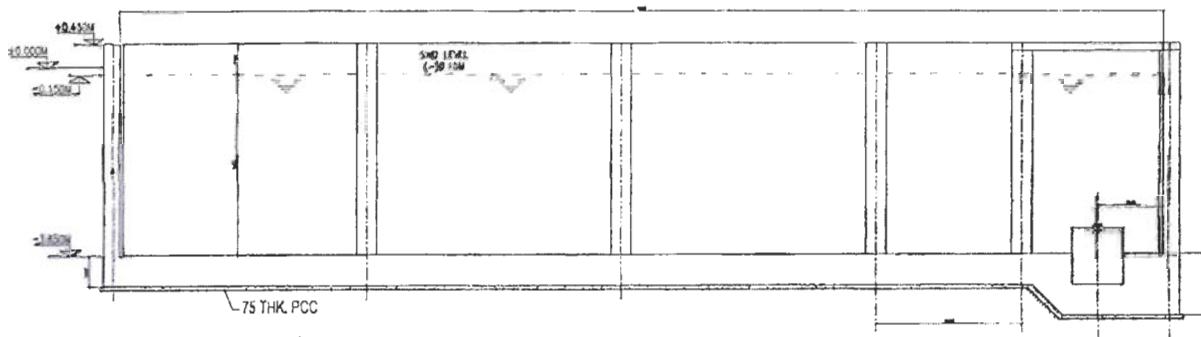
RAIN WATER HARVESTING SYSTEM				
	MEGHALAYA CEMENTS LIMITED			
SCALE NTS	DRAWN BY K.A.	DATE 06.02.16	CHKD. BY	APPD. BY
DRG. NO. MCL/LAYOUT/RWHS/001			REV 0	







TANK BOTTOM PLAN

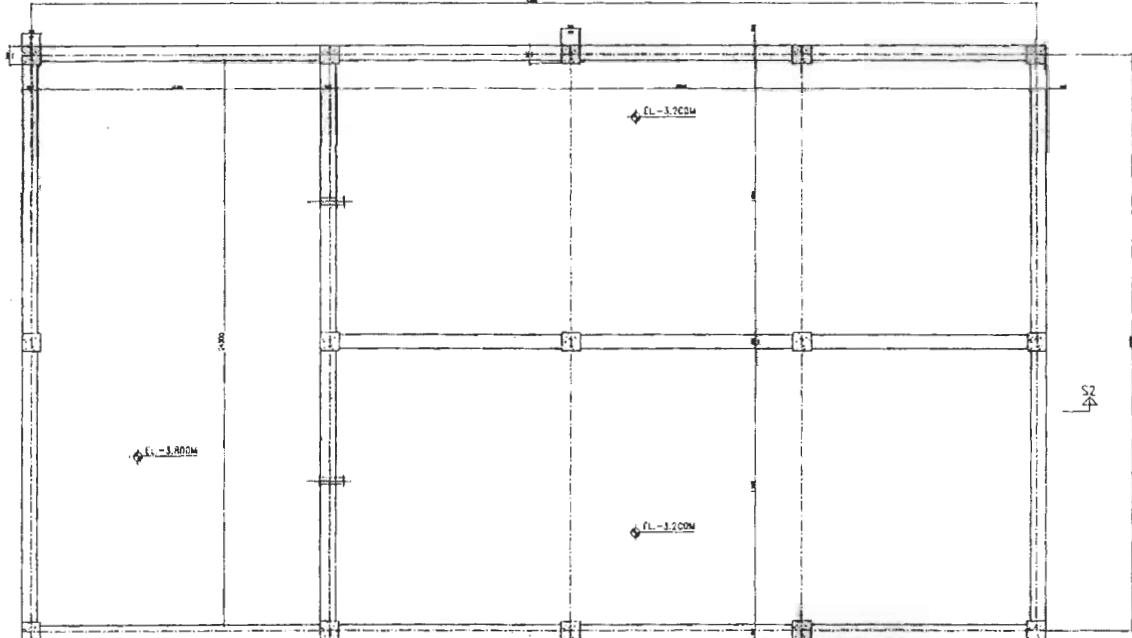
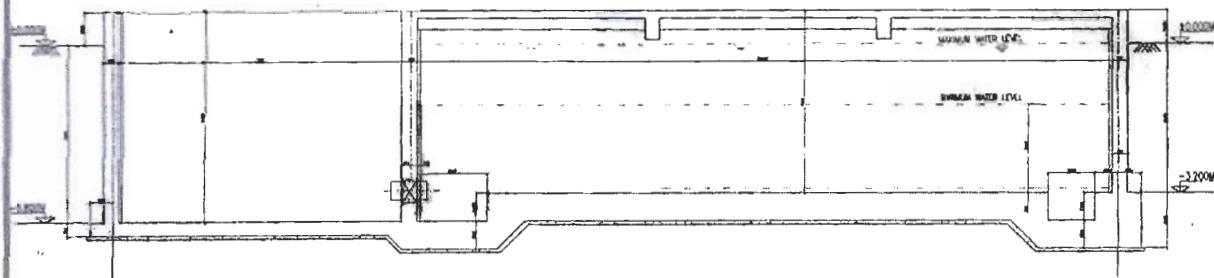


Elevation view (S-S)

WATER STORAGE TANK
CAPACITY- 500 CUM



CT BLOWDOWN WATER STORAGE TANK			
	MEGHALAYA CEMENTS LIMITED	DRAWN BY G.K	CH. BY U.A
SCALE N.T.S.	DATE 14.03.2024	APPD BY	
DRG.NO - MCL/MISC/C.T.B/W.TANK-001		REV 0	

TANK BOTTOM PLANElevation view(S2-S2)

WATER STORAGE TANK
CAPACITY - 990.59 CUM

RAW WATER STORAGE TANK			
	MEGHALAYA CEMENTS LIMITED		
SCALE N.T.S.	DRAWN BY G.K	CH. BY U.A	APPD. BY
DATE 14.03.2024			
DRG. NO - MCL/MISC/RAW/W.TANK-002			REV 0

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Technical series



Central Ground Water Board

केंद्रीय भूमिजल बोर्ड

Ministry Of Water Resources, River Development & Ganga Rejuvenation
जल संसाधन, नदी विकास और गंगा संरक्षण मंत्रालय
GOVERNMENT OF INDIA
भारत सरकार

REPORT ON RAIN WATER HARVESTING MEASURES IMPLEMENTED
BY M/s MEGHALAYA CEMENTS LIMITED AT VILLAGE- THANGSKAI,
SOUTH KHLIEJHARI, PO-LUMSHNONG,
DIST-EAST JAITIA HILLS, MEGHALAYA

State Unit Office
राज्य इकाई कार्यालय
Shillong
शिलांग
December, 2023



REPORT ON RAIN WATER HARVESTING MEASURES IMPLEMENTED BY M/s MEGHALAYA CEMENTS LIMITED AT VILLAGE- THANGSKAI, SOUTH KHLIEJHARI, PO-LUMSHNONG, DIST-EAST JANTIA HILLS, MEGHALAYA

A request had been received from Meghalaya Cements Limited, Thangskai, East Jaintia Hills district vide letter No MCL/ENV/CGWB/Comm/2022-23/31 dated 7th November, 2022 to approve the Rainwater Harvesting scheme/project being carried out in their campus. The Regional Director, Central Ground Water Board, North Eastern Region, deputed officers of SUO, Shillong to carry out the inspection of the above mentioned ongoing project. Accordingly, the inspection had been carried out in a reason 25th April, 2023.

Inspection Team	:Ms.Dakshina Rabha, Scientist-D(HG) Ms. Anenuo Pienyu, Scientist-C (HG)
Location details	:Meghalaya Cements (Topcem Cement). Village -Thangskai District -East Jaintia Hills State -Meghalaya
Co-ordinates	:25°12'12.60" North Latitude 92°22'47.83" East Longitude
Altitude	:798m.

Introduction

The Meghalaya Cement Company wants expansion of cement plant by **increasing** its production capacity from existing 900TPD to 2600 TPD along with 18MW Captive Power Plant at Thangskai, East Jaintia Hills district, Meghalaya. For this it requests amendment of **Environmental Clearance** relating to reduction of existing land area. On accepting the proposal of the company, State Environment Impact Assessment Authority impose some conditions for protecting the environment by developing green belt, restricting ground water extraction and recharging aquifer, recycling and reusing waste water,etc.

Scope of the Survey: State Environment Impact Assessment Authority in its environmental clearance report specifically instructed the company to practice rain water harvesting. It advised the company to prepare a detailed scheme for rain water harvesting to recharge the GW aquifer in consultation with CGWA/state GW Board within six months of receipt of Environmental Clearance. Accordingly this study was undertaken to examine the scope of rain water harvesting as well as possibility of recharging aquifer. .

Location: M/S Meghalaya Cement Limited is located at village Thangskai, PO- Lumshnong, Dist- East Jaintia Hills, Meghalaya. Its distance from the state capital Shillong is 104 Kms on the National Highway number 44 connecting the capital and the eastern part of Assam passing through the district. The study area is located at a distance of 18 km south of the block headquarters Khliehriat.

M/s Meghalaya Cements Limited is located (in an undulatory terrain and geologically the area



predominantly consists of Jaintia Group (Age: Paleocene-Eocene) of rocks which is comprised of Sandstone and Limestone of Shella Formation. The depth of weathered zone is 1-2 m followed by hard massive rocks.



Fig.1: Location of M/s Meghalaya Cement Limited.

At present the total population of the premises are 2214 (Office: 1358, Residential Quarter: 843, Floating Population, Guest House: 13). There is no groundwater abstraction structure in the campus to cater domestic need. The company does not have any plan to construct any groundwater structure in the campus.

At present the water supply in the campus, is provided from a nearby stream. Water harvested from rooftop of buildings is also used for domestic purposes which are collected in storage tanks and recharge pits. One depression spring is located in the campus. The spring water is collected in a tank and utilized for electricity generation.

Rain water harvesting scheme: To comply conditions of State Environment Impact Assessment Authority, the company compiled following data for preparations of rainwater harvesting schemes.

- (i) Rainfall data: The company collected rainfall data of Shillong rain gauge station for last 5 years due to non-availability of continuous time series data of nearby Jowai station (Table 1). The average annual rainfall is 6683mm while average monsoon rainfall is 4758mm.

Table1: 5 years rainfall data of IMD, Shillong station.

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
2016	13.7	8.8	83.7	1026.9	661.2	796.4	2603.8	318.6	644.4	335.6	25.7	7.5
2017	0.6	214.4	313.4	887.4	395.9	1537.9	1433	1523.6	854	471.9	11.8	35.8
2018	3.6	18.1	67.7	264.6	691.5	1129.7	1431.7	746.6	617.5	73.9	6.1	14.9
2019	0.1	28.9	22.5	271.9	913.5	1474.5	2210.6	731.3	1016.6	508.3	25.8	3.3
2020	28.1	14.9	31.2	265.1	1533.2	1465.5	1668.2	224.2	1361.4	327.7	17.2	0.0

- (ii) Roof area: The entire area is divided into two sectors, viz., Raw Material Shed and Residential Colony building. The roof area, roof materials, volume of rain water available and storage tank constructed of each sectors are as follows:



Sector	Roof materials	Roof area (Sq.m)	volume of rain water (m ³)	Storage tank constructed	Capacity of storage tanks (m ³)
Raw Material Shed	Tin	31557.42	168718.6	1	42
Residential Colony building	RCC	4777.194	25540.79	2	267.9x2=535.8

(iii) Recharge structure: The company constructed only one recharge structure to recharge 63m³ of water.



Fig.2:Raw Material Yard



Fig.5: Residential Quarters

Observation on compliance of State Environment Impact Assessment Authority conditions pertaining to Central Ground Water Board:

State Environment Impact Assessment Authority besides other conditions instructed the company for compliance of following conditions:

(1) Special conditions no. vi) debarred the company from use of groundwater for power productions.

Observations of CGWB: At present the company is not extracting groundwater from ~~bore well~~ or dug well. However, spring water is utilized for power production. Spring water is in fact is groundwater oozing out due to intersection of water table with topographic contour.

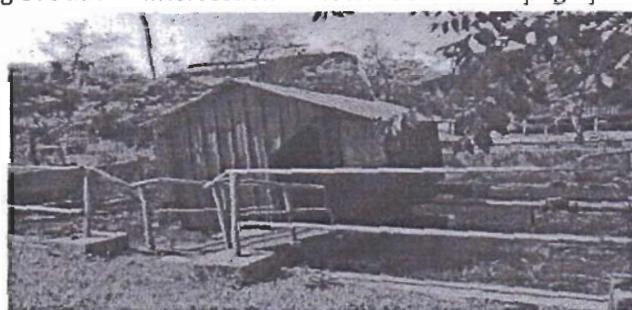


Fig.2: Spring water collection tank with power generation chamber.

(2) The company has prepared and implemented roof top rain water harvesting and recharging plan as mentioned earlier. However, the scheme is flawed due to use of excess rainfall data and choosing of wrong runoff coefficient. If IMD rainfall data of Jowai station was not available then they should use IMD grid data of Jaintia Hills. The IMD Grid data of Jaintia Hills for 10 years (2013-2022) is shown in Table: 3.



Table 3: Rainfall (mm) data of Jaintia Hills District, Meghalaya (source: India WRIS)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2013	0	10.12	60.41	98.51	440.32	210.86	299.4	282.57	194.63	120.77	0	1.9
2014	0.08	21.17	32.07	53.51	301.87	245.43	429.09	292.69	339.86	21.76	0.18	0.09
2015	16.14	15.36	28.64	258.55	214.52	357.91	290.41	333.3	266.12	53.93	19.21	4.78
2016	18.19	32.61	48.38	433.52	498.54	189.49	295.96	147.23	277.01	85.63	127.98	7.98
2017	0.25	48.43	237.77	444.39	261.56	426.47	299.33	341.97	319.22	280.34	18.38	55.23
2018	11.33	13.41	78.47	115.34	205.11	419.98	211	256.86	212.03	61.11	9.36	46.92
2019	0.12	18.61	37.16	137.79	291.51	291.2	366.88	220.35	211.67	231.89	25.66	0.68
2020	8.89	2.83	26.73	135.28	269.95	437.56	226.83	172.83	261.52	169.24	26.26	0.34
2021	2.07	0.21	66.45	120.33	200.05	244.69	230.54	315.36	109.11	185.47	0.05	21.66
2022	25.47	47.54	97.87	395.75	672.53	700.2	258.65	126.45	134.6	126.96	0.36	7.09

Runoff coefficient of tin and R.C.C. are 0.9 and 0.7 respectively (Source: Manual of Artificial Recharge of Groundwater (2007 & page: 118). With these data the total rain water volume available in the two sectors are as follows:

Sector	Roof materials	Runoff coefficient	Roof area (Sq.m)	volume of rain water (m ³)
Raw Material Shed	Tin	0.9	31557.42	55423.55
Residential Colony building	RCC	0.7	4777.194	6525.61

The storage tanks that are currently being built and those that are planned will collect approximately 1% of the total amount of rainwater that can be collected from the roof (61949.16 m³). If the volume of rainwater is not stored in toto, it may flow as surface runoff and breach the restrictions set forth in special condition number xxi.

(3) The total quantity of run-off that is generated in the site is 185826.56 m³ (Table: 4)

Table 4: Quantum of runoff available through Rainwater harvesting (within premises) for 2600 TPD Cement Plant

S. N.	Particulars	Area (Sqm) (To be filled)	Rainfall (m) (To be filled)	Runoff Coefficient*	Quantum of runoff available (Cum/Year)
	1	2	3	4	5(2*3*4)
1	Roof Top of building/Shed	36334.6	1.95142	0.85	60268.41682
2	Road/Paved area	49560	1.95142	0.65	62862.97945
3	Open Land (Rest of Area)	29540	1.95142	0.20	11528.97754
4	Green Belt (Plantation)	174800	1.95142	0.15	51166.17996
	Total (Sqm)	477825	Total Quantum of available runoff (Cum/Year)		185826.55

It is necessary to manage 70% of the non-committed run-off after classifying 30% as committed run-off (committed to fill roof top rainwater harvesting structure). 10% of the total non-committed run-off can be considered to be infiltrated by natural process. So at least half of the remaining 60% non-committed run-off needs to be managed either by recharge or storage. In either case recharging 63m³ of surface run-off is too small amount



and it will not serve any purpose.

Before recharging, water level condition of the site needs to be measured periodically. The general criteria of recharge is that if post-monsoon water level is deeper than 5 mbgl (metre-below-ground-level) then only the artificial recharge technique can be applied. Since there is no mechanism to measure groundwater level in the site, the company should construct some ground water monitoring wells (preferably piezometers that can tap the sandstone aquifer) and measure the water level periodically as mentioned in the environmental clearance letter. After that only artificial recharge plan should be prepared. However, some ponds/tanks of appropriate dimensions should be constructed to conserve the non-committed surface run-off.

CONCLUSION AND RECOMMENDATION:

The rain water harvesting schemes is prepared with flawed data set. The constructed as well as proposed storage tanks will store nearly one percent of available rooftop rain water. It is determined that the 63m³ of rainwater intended for recharge is insufficient when taking into account of the volume of non-committed run-off. .

Recommendations:

- i. Appropriate numbers of storage tanks need to be constructed to catch the roof top rain water.
- ii. Dug wells/piezometer networks should be establish to monitor GW level and quality as per directions issued by ENVIRONMENTAL CLEARANCE letter (No.SEIAA/(PR-19/2012)/PT/PR-05/2015/444 dated Shillong the 9th June 2017)
- iii. Artificial recharge plan should be prepared to recharge the aquifer if the post-monsoon water level is deeper than 5 mbgl.
- iv. Tanks/ponds with appropriate dimensions connected with storm water drains should be constructed to conserve the non-committed run-off.

Acknowledgement

The authors gratefully acknowledge Sh. Ujjal Anurag, Dy. Manager (Env.) and other senior officers of M/s Meghalaya Cements Limited for their kind co-operation during the course of the site inspection.



**GOVERNMENT OF MEGHALAYA
DEPARTMENT OF IRRIGATION
OFFICE OF THE EXECUTIVE ENGINEER (IRRIGATION)
JAINTIA HILLS DIVISION, JOWAI**

No AID(J)223/2007-2008/

Dated Jowai, the 24th March 2008

NO OBJECTION CERTIFICATE.

The Executive Engineer Irrigation Jaintia Hills Jowai after due consideration of all formalities relating to the issue of N.O.C to Meghalaya Cement Limited for drawal of water from the River Chynryntong - Um parti near Thangskai village for its Cement Plant with its Captive Power Plant at Thangskai village, subject to N.O.C issued by District Administration of Jaintia Hills District, Jaintia Hills Autonomous District Council, Jowai, Durbar Elaka Narpuh, Durbar Shnong Thangskai, Narpuh, the undersigned is pleased to grant this NO OBJECTION CERTIFICATE to the Meghalaya Cement Limited for the drawal of water from Chynryntong - Um parti River to the proposed Cement Plant and Captive Power Plant of Meghalaya Cement Limited at Thangskai village subject to the following condition:-

1. The Company will not claim any right over the river nor shall refrain any other agency from utilizing the water from Chynryntong-Um parti River as and when required.
2. The Company is to draw only the required quantity of water of 0.04 Cumecs and extra requirement should be obtained prior permission from the undersigned before drawal of the water from Chynryntong - Um parti River
3. To prevent pollution of river/streams, the company is to ensure that no liquid effluent should flow from the factory to any stream or river by construction of Treatment plants/ soak pits.
4. The company should pay royalty/Cess as and when required as per the rule and regulation laid by the Government.
5. Regular monitoring as to the observance of the terms and condition to be done by the representative of the Department and the company on half yearly basis.

Cont... P/2



6. The company should obtained No Objection Certificate for setting up plant from the Jaintia Hills Autonomous District Council including Trading Licence.
7. The company must follow the above terms and condition otherwise the legal action should be taken against the company.

S.A. (S)
Shri.K.D. Phawa
Executive Engineer(Irrigation)
Jaintia Hills Division, Jowai

Mem. No. AID(J)223/2007-2008/ 1445 €

Dated Jowai, the 24th March 2008.

Copy:

1. The Deputy Commissioner, Jaintia Hills District, Jowai - for favour of information.
2. The Chief Engineer(Irrig), Meghalaya, Shillong - for favour of information as per technical approval vide letter no Agn/IRRI-1308/2001-02/343 dt 25th March 2002.
3. The Superintending Engineer(I) Meghalaya, Shillong Circle for favour of information.
4. Shri. Gopal Sharma, Authorised Signatory of Meghalaya Cement Ltd. Thangskai for favour of information.

Shri.K.D. Phawa
Executive Engineer(Irrigation)
Jaintia Hills Division, Jowai



Annexure -IV

GOVERNMENT OF MEGHALAYA
OFFICE OF THE DEPUTY COMMISSIONER JAINTIA HILLS DISTRICT
JOWAI

No. Gen/MCL-4/81/140 - This is to certify that there is NO Objection to Shri Gopal Sharma Authorized Signatory of MEGHALAYA CEMENTS LIMITED for drawing water from Wah Shyrtong River to use of their Plant as well as for Power Plant. This certificate is issued on the basis of the N O Cs issued by the District Council/ Headman Mynkiel/ Delloi of Elaka

Sy-
Deputy Commissioner,
Jaintia Hills District, Jowai

No GEN/MCL-4/81/140-A

Dated Jowai the 21st November 2007

Copy to

- 1 The Superintendent of Police, Jaintia Hills District Jowai for information
- 2 The Secretary, Jaintia Hills Autonomous District Council Jowai for information and necessary action.
- 3 Shri Gopal Sharma, Authorized Signatory Meghalaya Cements Limited for information and necessary action.

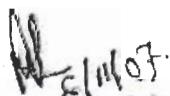

Deputy Commissioner
Jaintia Hills District, Jowai



OFFICE OF THE DOLLOI ELAKA NARPUH
Jaintia Hills District, Meghalaya

NO OBJECTION CERTIFICATE

I, Shri Manbha Kyndoh, Dolloi of Narpuh Elaka, Jaintia Hills District, Meghalaya, hereby certify that I have no objection in drawing water from Wah Shyrtong river by M/s Meghalaya Cements Limited for their use and for power plant purpose.


Shri. Manbha Kyndoh
Dolloi
Elaka Narpuh

Date: Thangskai.
Place: 3/9/07.

Shri Manbha Kyndoh
Dolloi of Narpuh Elaka



OFFICE OF THE JAITI HILLS AUTONOMOUS DISTRICT COUNCIL, JOWAI.

NO. JHADC/ FOR/22/04/1318

Dated Jowai, the 5-6-2007.

To,

✓ M/s Meghalaya Cement Limited,
Thangskai, Jaintia Hills District.

Subject :- No-objection certificate.

Reference :- Your letter dt. 03.05.07.

With reference to your petition above, I am directed to inform you that this Office have no-objection for your drawl of water from Wah Shynrynteng to the Cement Plant site on the following conditions.

1. This N.O.C is valid for drawl of water only.

2. The number and size of trees to be felled during the course of pipeline connection should be reported to this Office for necessary action.

3. The company shall have to reclaim out of its own cost any damage caused during the time of drawing of water from the river source.

4. It shall be the prime responsibility of the company that the nearby population crops, orchards etc. shall not be effected due to the drawl of water.

5. Non observance and violation of the above conditions this No-objection certificate is liable to be cancelled.

By
By, Chief Forest Officer,
Jaintia Hills Autonomous District Council,
Jowai.



MEGHALAYA CEMENTS LIMITED

Location: CPP	Water Consumption(Monthly) :M ³							
	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Avg. (M ³ /Day Cons.)	Water Consumption not exceed
	15399	10897	14108	16518	11,681	12,047	540.80	2000 m ³ /Day

Location	Meteorological Data (Monthly Avg.)						
	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	
Temperature	Min	12.33	15.62	14.92	17.86	18.10	18.12
	Max	29.73	30.42	30.30	29.63	29.75	31.29
	Avg.	26.40	20.64	22.00	21.60	20.61	21.76
Humidity	Min	32.39	39.09	66.52	75.60	76.58	53.96
	Max	97.42	97.93	98.69	95.55	93.12	98.96
	Avg.	32.39	82.27	90.59	92.92	85.17	87.40
Rain Fall	MTD	494	983	619.90	476	625	100.50
	YTD	494	1477.50	2097.	2573	3198	3298.50

Prepared by

Abhigyan Gautam



Checked & Verified

Ujjwal
Ujjwal Anurag

MEGHALAYA CEMENTS LIMITED

Six Monthly Reports (CPP): PM & AAQ Report, 2025-2026Suspended Particulate Matter (PM) & Gaseous Emission:mg/Nm³

Chimney : CPP		Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Avg.	Concentration not to exceed, in mg/Nm ³
	PM	45	17.81	43	46	41	42	39.13	50
	SO ₂	418	428.59	0423	429	429	431	426.43	600
	NOx	167	140.42	0179	183	183	189	173.57	300
	Hg	0.005	-	-	0.005	0.005	0.004	0.005	0.03
Location: CPP		<u>Ambient Air Quality (AAQ):ug/m³</u>							
		Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Avg.	MoEF notification G.S.R 826(E), dated 16.11.2009, Concentration not to exceed,
S↔E	PM ₁₀	77.6	79.1	76.8	55.2	53.1	92.4	72.36	100
	PM _{2.5}	45.9	46.9	49.3	26.3	35.8	53.9	43.01	60
	SO ₂	7.7	9.0	8.7	7.4	9.9	14.7	9.56	80
	NOx	9.6	9.7	11.2	8.6	8.3	17.5	10.81	80
S↔W	PM ₁₀	58.9	67.9	59.4	67.9	46.9	81.1	63.68	100
	PM _{2.5}	36.3	32.57	35.59	37.8	32.2	47.5	36.99	60
	SO ₂	7.4	6.9	7.9	9.8	7.2	9.4	8.10	80
	NOx	8.5	9.6	8.4	11.3	6.9	5.8	8.417	80
N↔E	PM ₁₀	62.5	61.4	67.8	58.4	54.3	75.6	63.33	100
	PM _{2.5}	35.7	27.9	38.7	28.9	28.3	41.11	33.43	60
	SO ₂	8.8	9.4	9.4	7.4	8.9	11.60	9.25	80
	NOx	7.3	8.9	8.2	7.8	7.5	6.98	7.78	80
Prepared by  Abhigyan Gautam					Checked & Verified by Ujjwal Anurag				



MEGHALAYA CEMENTS LIMITED

Six Monthly Reports: Noise Intensity and Water Consumption, 2024-2025

Location		Noise Intensity: dB (A) Leq							
		Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Avg.	Noise Level not to exceed, in dB (A) Leq
Captive Power Plant	Day	69.5	63	68.9	69.8	68.8	42.1	63.68	75
	Night	63.7	57	67.4	68.5	67.5	36.3	60.06	70
DG House	Day	42.8	68	42.7	43.8	45.9	59.5	50.45	75
	Night	37.5	53	39.7	38.9	37.9	60.5	44.58	70
Guest House	Day	41.9	42.5	43.5	44.6	47.6	41.8	43.65	75
	Night	43.9	41.3	40.9	41.8	39.9	39.8	41.26	70
Crusher	Day	72.10	70	72.7	71.3	71.4	71.4	71.48	75
	Night	66.10	48	67.4	75	67	66.6	65.01	70

NOTE: Day Time (6:00AM to 9:00PM), Night Time (9:00PM to 6:00AM).

Location		Water Consumption(Monthly) : M ³							
		Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Avg. (m ³ /Day)	Water Consumption not exceed
Domestic (m ³)		4525	4759	5594	5576	5055	5013	166.78	
Industrial Cement Plant (m ³)		13048	12116	17697	14516	14027	12521	458.60	
Industrial WHRS (m ³)		7360	4662	6183	7250	4734	6515	200.56	1236 m ³ /Day



MEGHALAYA CEMENTS LIMITED

Six Monthly Report: Ambient Air Quality Report, 2025-2026

Location		Ambient Air Quality (AAQ): $\mu\text{g}/\text{m}^3$							MoEF notification G.S.R 826(E), dated 16.11.2009, Concentration not to exceed,
		Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Avg.	
Near CCR Building	PM ₁₀	54.8	40.28	61.5	63.8	65.2	64.3	58.31	100
	PM _{2.5}	23.8	19.33	33.8	35.3	3.1	35.3	25.10	60
	SO ₂	7.6	6.9	7.8	7.9	7.7	7.8	7.61	80
	NOx	8.2	7.8	8.6	8.8	8.6	8.4	8.4	80
Guest House	PM ₁₀	57.8	48.27	68.9	59.3	80.2	86.30	66.79	100
	PM _{2.5}	28.6	26.55	33.6	31.6	47.6	47.21	35.86	60
	SO ₂	6.5	7.3	6.7	6.3	8.5	11.25	7.75	80
	NOx	7.6	5.3	7.1	6.4	7.9	17.52	8.63	80
Crusher	PM ₁₀	58.9	51.02	735	81.5	78.5	75.3	180.03	100
	PM _{2.5}	28.3	20.77	25.3	43.7	40.3	39.3	32.94	60
	SO ₂	8.2	8.5	8.7	8.6	8.9	7.90	8.46	80
	NOx	10.2	11.5	11.3	10.7	11.5	11.20	11.06	80
DG House (Downwind direction)	PM ₁₀	44.8	53.9	45.6	53.74	68.9	92.3	59.87	100
	PM _{2.5}	25.1	33.4	29.6	32.5	31.5	53.7	34.30	60
	SO ₂	6.9	8.1	6.3	7.5	5.9	11.8	7.75	80
	NOx	9.2	7.2	8.3	9.4	7.6	17.5	9.86	80

Prepared by

AbhigyanGautam



Checked & Verified by

Ujjwal Anurag

MEGHALAYA CEMENTS LIMITED

Six Monthly Reports: Stack Emission Report, 2025-2026

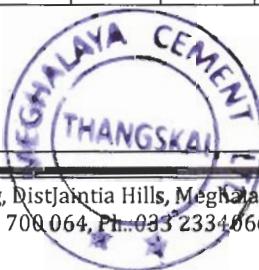
Chimney		<u>Suspended Particulate Matter (PM):mg/Nm³</u>							MoEF notification G.S.R 826(E), dated 16.11.2009, Concentration not to exceed,
		Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 025	Avg.	
Pr. Crusher	21	10.97	18	17	19	17	17.16		30
Sec. Crusher	19	12.84	20	19	20	19	18.3		30
Coal mill 1	22	18.85	26	28	29	NA	24.77		30
Coal mill 2	23	21.94	22	26	28	NA	24.18		30
VRM	NA	NA	NA	NA	NA	29	29		30
RABH 1	PM	23	11.77	21	22	22	23	20.46	30
	SO ₂	604	728.35	616	621	621	623	635.55	1000 (Based on pyritic sulphur presence in limestone)
	NOx	293	180.85	299	303	303	307	280.97	600
RABH 2	PM	21	14.26	19	21	20	22	19.54	30
	SO ₂	638	698.55	626	633	633	636	644.09	1000 (Based on pyritic sulphur presence in limestone)
	NOx	301	168.0	299	309	309	312	283	600
ESP 1	26	26.65	27	28	26	27	26.77		30
ESP 2	27	25.65	28	27	28	26	26.94		30
Cement Mill No-1	26	15.05	24	22	21	22	21.67		30
Cement Mill No-2	25	17.55	23	24	23	24		22.75	30
Packing House-1	22	11.54	23	21	22	23	20.42		30
Packing House-2	21	10.75	22	23	22	21	19.95		30

Prepared by

Abhigyan Gautam

Checked & Verified by

Ujjwal Anurag





OCCUPATIONAL HEALTH CENTER
Unit - Meghalaya Cements Limited.

AUDIOGRAM

Name :- HEMEN BAISHYA

Department :- CPP

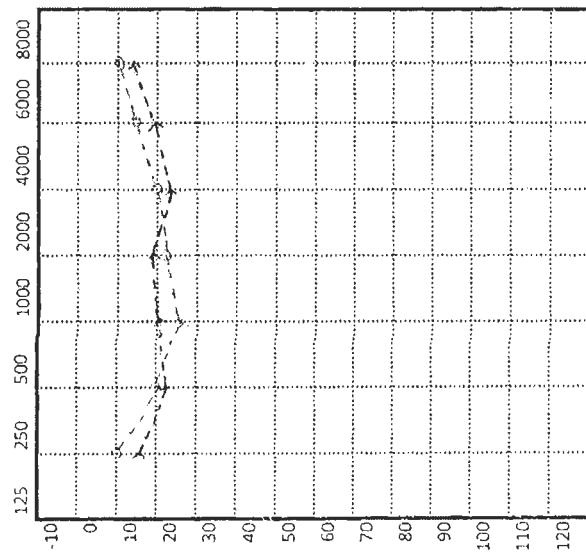
Employee code :- 2074

Age :- 14y.

Date :- 25/07/25

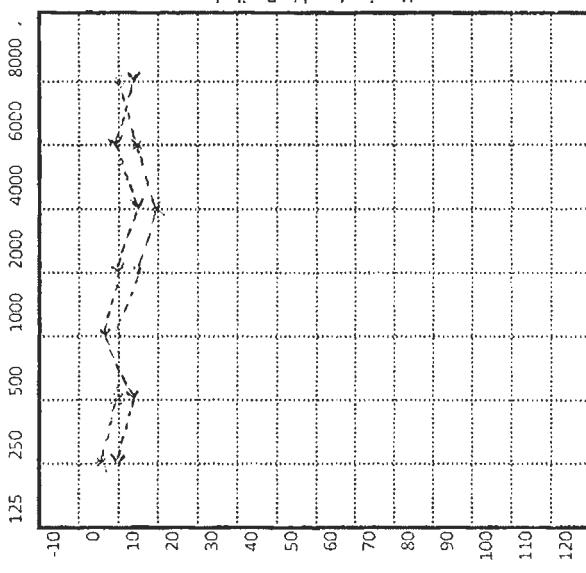
Sex :- Male

RIGHT



Frequency In Hertz

LEFT



Frequency In Hertz

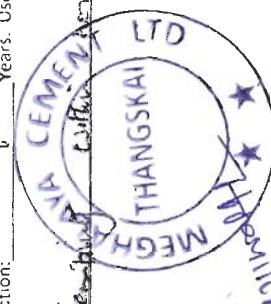
Complaints	Deafness/Otorrhoea/Tinnitus/ Nausea/	AC	BC	AC:
Past illness	TB/Typhoid/Almos/mesies/Jaudice/Meningitis/	Right	O	BC:
Ototoxic Drugs	STP/Gentamycin/Salicylates/Antimalaria/	Left	x	AC:
Noise Exposure	/Duration: _____	<		BC:

Years. Use PPE: Yes/no _____
Source: _____ /Duration: _____
Remarks: _____
Place: Thangkai
Date: 25/07/25.

AC	BC
Right	O
Left	x

AC: Air Conduction
BC: Bone Conduction
AC: Red Colour
BC: Blue Colour

Annexure - VI
Signature: 1234567890 (R2)
(Medical Officer), Bikaner (Raj)
Date: 25/07/25
Name: S. K. Singh
Designation: Medical Officer
Meghalaya Cements Limited
Address: Meghalaya Cements Limited, Bikaner (Raj)



ETS LAB PRIVATE LIMITED

ANNEXURE-1
SUMMARY OF REPORT

S. No.	Name of Stack	Attached APCD	APCD Details						Particulate Matter, mg/Nm ³		Efficiency, %	
			Temperature, °C		Velocity, m/s		Diameter, Meter		Inlet	Outlet		
			Inlet	Outlet	Inlet	Outlet	Inlet	Outlet				
1.	Primary Crusher	Polyethylene Bag Filter	80	76	15.5	16.0	0.407	0.61	10215	87	99.1	
2.	Secondary Crusher	Polyethylene Bag Filter	78	74	15.0	15.6	0.508	0.597	12214	92	99.2	
3.	Raw Mill/Kiln-1	RABH-1	74.0	78.0	16.8	15.4	2.200	2.638	18212	114	99.4	
4.	Raw Mill/Kiln-2	RABH-2	75.0	76.0	16.4	14.2	2.388	2.638	17321	65	99.6	
5.	Clinker Cooler-1	ESP-1	64	62	14.4	15.2	1.988	1.988	6545	54	99.2	
6.	Clinker Cooler-2	ESP-2	60	56	14.8	15.3	1.988	1.988	6245	45	99.3	
7.	Cement Mill-1	Pulse Jet Polyester Bag Filter	81	80	14.5	12.6	0.787	0.788	113120	491	99.6	
8.	Cement Mill-2	Pulse Jet Polyester Bag Filter	80	78	13.6	13.3	0.787	0.788	110215	385	99.7	
9.	Packing Plant-1	Pulse Jet Polyester Bag Filter	72	68	12.8	14.2	0.711	0.610	6445	42	99.3	
10.	Packing Plant-2	Pulse Jet Polyester Bag Filter	68	65	14.3	14.8	0.559	0.711	5647	48	99.1	
11.	Captive Power Plant	ESP	65	63	12.8	13.2	---	---	8564	67	99.2	

Emission Rate, Volumetric Flowrate, Nm³/Hrs.

			Volumetric Flowrate, Nm ³ /Hrs., Inlet	Volumetric Flowrate, Nm ³ /Hrs., Outlet
1.	Primary Crusher	Polyethylene Bag Filter	6028.7	14139.4
2.	Secondary Crusher	Polyethylene Bag Filter	9140.1	13280.7
3.	Raw Mill/Kiln-1	RABH-1	194223.4	253069.4
4.	Raw Mill/Kiln-2	RABH-2	222745.9	234686.9
5.	Clinker Cooler-1	ESP-1	139972.2	148630.5
6.	Clinker Cooler-2	ESP-2	145588.4	152336.8
7.	Cement Mill-1	Pulse Jet Polyester Bag Filter	21027.6	18370.7
8.	Cement Mill-2	Pulse Jet Polyester Bag Filter	19778.4	19501.7
9.	Packing Plant-1	Pulse Jet Polyester Bag Filter	15545.6	12843.1
10.	Packing Plant-2	Pulse Jet Polyester Bag Filter	12471.3	18346.8
11.	Captive Power Plant	ESP	19471.0	20167.9

G1-171 (B1), Dabur Zone, Matsya Industrial Area, Alwar-301030 Rajasthan, India
Phone: 075685 54666, E-Mail : echservices639@gmail.com



Six Monthly Reports:PROCESS FUGITIVE EMISSION TEST RESULTS
From April'2025 to September'2025

Location	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)							As per standard limit ($\mu\text{g}/\text{m}^3$)
	April 2025	May 2025	June 2025	July 20 25	Aug 20 25	Sept 20 25	Avg.	
Lime stone Storage Area	2965	2138	3123	2893	1517	3126	2106.5	5000
Coal Storage Area	759	1078	789	768	781	1014	734.6	2000
Clinker Loading Area	3621	1837	3478	1319	2769	3126	2691.6	5000
Cement Loading Area	1362	2547	1426	3126	3225	2943	2438.1	5000
Coal Storage Area (CPP)	1262	1183	1351	768	986	1132	1113.6	2000
Fly Ash Silo Area (CPP)	1041	987	948	812	974	1037	966.5	2000

Prepared by
Abhigyan Gautam



Checked & Verified by
Ujjwal Anurag

Meghalaya State Pollution Control Board
 Forests & Environment Department, Government of Meghalaya
 'ARDEN' Lumpyngngad, Shillong - 793014
 Website : <http://megspcb.gov.in>



No.MPCB/TB-CON-143-2007/2023-24/24

Dated Shillong the 26th February 2024

To,

M/s MEGHALAYA CEMENT LIMITED
 C/o. The Director
 Village, Thangskai,
 P.O Lumshnong,
 East Jaintia Hills District

Recd
29/2/24

Subject: - APPROVAL FOR THE NEUTRALIZATION TANK

Sir,

With reference to the Subject cited above, this is to informed you that the Plan (Drawing) of Neutralization tank along with the Garland Drain at coal storage area submitted by you has been scrutinized by the Board and as per the inspection carried out by the board official, it was observed that the plan has been executed on site as per the drawing and seems to functioning effectively and meeting the requirements.

In line with maintaining Environmental compliance and ensuring the continued effectiveness of your Neutralization tank you are hereby kindly directed to submit a monthly analysis report for the neutralization tank to this Board failing which this approval maybe 'REVOKE'.

Yours Faithfully,



Dr. G.H Chyrmang, MFS
 MEMBER SECRETARY
 Meghalaya State Pollution Control Board,
 Shillong



O/c



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 06.06.2025

The Member Secretary,
 Meghalaya State Pollution Control Board,
 'Arden' Lumpyngngad,
 Shillong, Meghalaya.

Subject: - Water Analysis report for Coal Neutralizing Tank.

Ref. - MPCB/TB-CON-143-2007/2023-24/24, Dated Shillong the 26th February 2024.

Dear Sir,

We are herewith submitting the Water Analysis report for Coal Neutralizing Tank for the **Period of November-2024 to May-2025** for Cement Plant & Captive Power Plant located at Thangskai Village, East Jaintia Hills.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

Mr. ...
 Authorized Signatory



ISO 9001:2015 & 14001:2015
 50001:2011 Certified Company

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

HELPLINE NO : 18001233666

Kolkata :
 BE-77, Salt Lake City
 Sector-1, Kolkata - 700 064
 Tel. : 033 2334 0668 / 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. : +91 89742 17765 / 70850 58469 / 98625 09599
 E-mail : meghalaya@topcem.in



Meghalaya Cements Limited

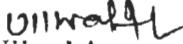
Water Analysis Report for Coal Neutralizing Tank

Sl. No.	Parameters	Obtained Value		Permissible Limit
		Apr-25	May-25	
1	pH	6.78	7.01	6.5 – 8.5
2	Dissolved Oxygen (mg/lit)	15.5	14.71	-
3	Total Dissolve Solids (mg/Lit)	165	184	<500
4	Conductivity (mg/Lit)	175	192	-
5	Total Hardness (mg/ Lit)	51	49	<300
6	Calcium (mg/Lit)	47	39	<200
7	Magnesuim (mg/Lit)	21	32	<100
8	Alkalinity (mg/Lit)	55	37	<200

Prepared BY


Abhigyan Gautam

Verified By


Ujjwal Anurag



Annexure - M



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 10.10.2025

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

Subject: - Water Analysis report for Coal Neutralizing Tank.

Ref. - MPCB/TB-CON-143-2007/2023-24/24, Dated Shillong the 26th February 2024.

Dear Sir,

We are herewith submitting the Water Analysis report for Coal Neutralizing Tank for the Period of June-2025 to September-2025 for Cement Plant & Captive Power Plant located at Thangskai Village, East Jaintia Hills.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

Authorized Signatory



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: giwahati@topcem.in
Web: www.topcem.in

HELPLINE NO : 18001233666

Kolkata :
B/E-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel.: 033 2334 3666 / 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 / 393 / 364
Fax : 03655 278327
E-mail : meghalaya@topcem.in



Meghalaya cements limited

Water Analysis Report for Coal Neutralizing Tank

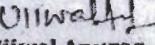
Date: 10.10.2025

Sl. No.	Parameters	Obtained Values in				Permissible Limit
		JUNE'2025	JULY'2025	AUG'2025	SEPT'2025	
1	pH	6.87	7.21	6.72	6.75	6.5 - 8.5
2	Dissolved Oxygen (mg/lit)	5.8	5.1	5.3	6.1	-
3	Total Dissolve Solids (mg/Lit)	298	308	327	291	<500
4	Conductivity (mg/Lit)	259	243	263	258	-
5	Total Hardness (mg/ Lit)	39	38	32	36	<300
6	Calcium (mg/Lit)	26	28	24	27	<200
7	Magnesium (mg/Lit)	9	11	12	8	<100
8	Alkalinity (mg/Lit)	68	71	67	65	<200

Prepared By


Abhigyan Gautam

Verified By


Ujjwal Anurag



Annexure-X

Meghalaya cements limited

Thangskai, Meghalaya

DOWNSRAME WATER ANALYSIS REPORT FOR THE YEAR 2025-26

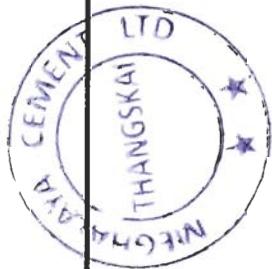
Sl. No.	Parameters	Obtained Values in					Average	Permissible Limit
		Apr-25	May-25	Jun-25	Jul-25	Aug-25		
1	pH	6.85	6.9	6.7	6.75	6.6	6.2	6.667
2	Dissolved Oxygen (mg/lit)	6.87	11.7	6.6	6.25	6.17	7.8	7.565
3	Total Dissolve Solids (mg/Lit)	132	117	125	126	125	96	120.167
4	Conductivity (mg/Lit)	177	176	142	189	167	176	<500
5	Total Hardness (mg/ Lit)	37	30	31	27	19	31	171.167
6	Calcium (mg/Lit)	30	21	25	25	30	26	<300
7	Magnesium (mg/Lit)	11	11	16	18	11	15	26.167
8	Alkalinity (mg/Lit)	42	47	54	50	58	36	<200
9	Cr+6 (mg/t)	0.0269	0.0248	0.047	0.0235	0.0261	0.038	0.0311
								<0.05

Prepared By


Abhigyan Gautam

Checked & Verified By


Ujjwal Anurag



Annexure -X

Meghalaya cements limited

Thangskai, Meghalaya

UPSTREAM WATER ANALYSIS REPORT FOR THE YEAR 2025-26

01.10.2025

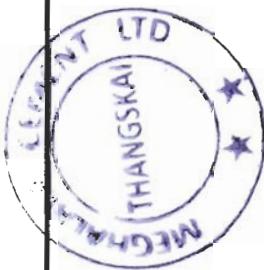
Sl. No.	Parameters	Obtained Values in					Average	Permissible Limit
		Apr-25	May-25	Jun-25	Jul-25	Aug-25		
1	pH	6.85	6.9	6.7	6.75	6.6	6.2	6.67
2	Dissolved Oxygen (mg/lit)	6.87	11.7	6.6	6.25	6.17	7.8	7.57
3	Total Dissolve Solids (mg/Lit)	132	117	125	126	125	96	120.17
4	Conductivity (mg/Lit)	177	176	142	189	167	176	171.17
5	Total Hardness (mg/ Lit)	37	30	31	27	19	31	<300
6	Calcium (mg/Lit)	30	21	25	25	30	26	<200
7	Magnesium (mg/Lit)	11	11	16	18	11	15	<100
8	Alkalinity (mg/Lit)	42	47	54	50	58	36	<200
9	Cr+6 (mg/t)	0.029	0.0257	0.0299	0.0244	0.0276	0.0273	<0.05

Prepared By


Abhishek Gautam

Checked & Verified By


Ujjwal Anurag



YEAR WISE PLANTATION DETAILS
M/s MEGHALAYA CEMENTS LIMITED
Plant area - 52.949 Ha

As on Dated 30/09/2025

Year	Saplings planted (Nos.)	Area covered (Hect.)	Saplings Survive (Nos.)	Survival Rate	Remarks
2009-20	79900	19.1898	61195	76.59%	Planted at different locations such as Northern, Northeastern and eastern side of the project area, CPP campus, Lawn of residential blocks & Topcem Public School Campus, Interspaces in plant boundary, road & internal road side, Children park etc. before the amendment of reduction of existing of plant area from 59.269 Ha to 52.949 Ha vide letter no- SEIAA/PROJECT-2/2007/8/1818 dated Shillong, the 30th September, 2020.
2020-21	3475	0.2185	2955	85.04%	Planted CPP back side and interspaces along plant boundary.
2021-22	10548	0.5170	8697	82.45%	Planted LS Reclaimer back side, CPP back side, Topcem Public School Campus, Magazine Area, Clay Shed back side, Cricket Ground road side and interspaces along plant boundary.
2022-23	6693	Nil (Gap filling)	5340	79.78%	Gap filling at Green Colony side, Old Transport Colony, Approach Road, Near By Topcem School, Nursery, CPP back side, Down Colony, Near Clay Shed, Near Cricket Ground, Near E-Block etc.
2023-24	22529	Nil (Gap filling)	16194	71.88%	Gap filling at near CPP Magazine, E-Block, Pink Colony, Near Cricket Ground, Down Colony, Raw material Yard, Plant Approach road, Nursery, CPP side, Near Gate-01, Gate-02, HEMM Workshop, Community Hall, Guest House & Temple side etc.
2024-25	2553	Nil (Gap filling)	2085	81.67%	Gap filling at near E-Block, Nursery, Pink Colony, Near Cricket Ground, Down Colony, Raw material Yard, Plant Approach road, Gate-02, Community Hall & Temple side etc.
2025-26	2327	Nil (Gap filling)	1845	79.29%	Gap filling at near Green Colony, bypass road, Down Colony, WHRS side, near Gate-2, Dispensary back side, CPP back side, Nursery, Magazine side, Plant entrance, Residential colony, Admin campus, Internal road, Topcem School,
Total	128025	19.9253	98311	76.79%	



Occupational Health Center Details

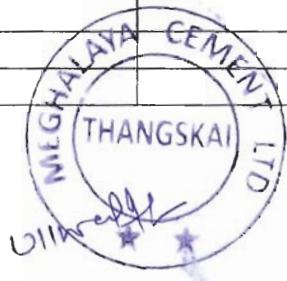
MCL OHC Staff Details			
Sl.No.	Name of Staff	Course	Designation
1	Dr. Lanu Akash Aimol	MBBS	Medical Officer
2	Dr. Fedelis Lungdin	BDS	Dental Officer
3	Sabir Hussain	GNM	Male Nurse
4	Shilpi Nath	ANM	Female Nurse
5	Wanpali Heimon B Talang	ANM	Female Nurse
6	Tarini Bezburah	RMP	Compounder
7	Shankar Kumar Singha	MLT	Lab Technician
8	Jyotishman Kashyap	Certificate Course	X-ray Technician
9	Deimonmi Suiam	10th	Dresser
10	Genevolin Lamare	10th	Office Assistant
11	Rajdeep Bezbbarah	D.Pharma	Pharmacist

Hospital Equipment & Services

Sl. No.	Hospital Equipments	Quantity	Remarks
1	ECG Machine	1	
2	Audiometry Machine	1	
3	Spirometry Machine	1	
4	Nebulizer machine	2	
5	Suction Machine	2	
6	AUTOMATIC EXTERNAL DEFIBRILLATOR	1	
7	Multipara monitor	2	
7	Multipara monitor-2	2	
8	Manual BP Machine -2	2	
9	Digital BP machine-2	2	
10	Minor OT light-2	2	
11	Hospital Bed (Fowler, Semi fowler, Plain)	10	
12	Bedside curtain screen	3	
13	Auto-clave Machine	2	
14	Digital otoscope	1	
15	Instrument Boiler	1	
16	Needle Cutter	1	
17	Foldable Stretcher	5	
18	Wheel Chair	3	
19	Steel Stretcher Trolley	1	
20	B-Type Oxygen Cylinder	6	
21	D-Type Oxygen Cylinder	5	
22	C-PAP	1	

Dental Equipment's

1	Dental Chair	1
2	UV STERILIZER	1
3	Dental air compressor	1



4	Dental Scalers Set	1	
5	Dental Glass Bead Sterilizer	1	

X-Ray Equipment's

1	X-RAY machine	1	
2	Radiography CR system	1	
3	Xray Lead Barrier	1	
4	Lead thyroid collar	1	
5	Lead Vest	1	

Ambulance Service @ 24x7

1	BLS Ambulance	1	
2	Mini Ambulance	1	

Lab Equipment details

Sl. No.	Name of Equipments	Quantity	Remarks
1	Microscope	2	
2	Centrifuge Machine	2	
3	Semi Auto Analyzer	1	
4	Fully Automatic Hematology Analyzer	1	
5	Fully Automatic Immunofluorescence Quantitative Analyzer	1	
6	Fully Automatic Electrolyte Analyzer	1	
7	Haemo Meter	2	
8	Blood Glucose Meter	2	
9	Micropipette 100-1000 Micro Litre	1	
10	Micropipette 5-50 Micro Litre	1	
11	Incubator	1	
12	Blood cell Counter	1	
13	Haemocytometer	1	
14	Test Tube Rack	3	
15	ESR Stand	1	

Lab Testing Facility

Sl. No.	Lab Testing Facility
1	Blood Glucose:- Fasting, Random & PP
2	COMPLETE BLOOD COUNT (CBC)
3	ESR
4	KIDNEY FUNCTION TEST (KFT)
5	LIVER FUNCTION TEST (LFT)
6	LIPID PROFILE
7	SERUM ELECTROLYTES
8	THYROID PROFILE
9	HbA1C
10	C-Reactive Protein Latex Test
11	R.F. (Latex Test)
12	VDRL
13	HBsAg (Hepatitis-B)



14	HCV (Hepatitis-C)
15	A.B.O. Grouping
16	Rh Type
17	Malaria Test
18	Widal Test
19	Dengue Kit
20	Serum Uric Acid
21	HCG
22	ECG
23	SPIROMETRY (PFT)
24	AUDIOMETRY
25	Trop-T
26	ASO
27	CKMB
28	CARDIAC TROP I
29	PROCALCITONIN
30	MICROALBUMIN
31	SERUM TOTAL CALCIUM
32	Urine Routine Examination
33	Stool Routine Examination

Hospital Emergency Services

1	24 X 7 Doctor Availability
2	24 X 7 BLS Ambulance Service
3	24 X 7 Mini Ambulance Service



SALARY DETAILS OF CLEANER FOR THE MONTH OF SEPTEMBER'25								
S.N.	NAME	CODE NO.	SEX	D.O.J.	GRADE	DEPT	DESIG	SALARY
1	DISWONLANG BAREH	2260	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	20025
2	SABINA SYIH	2262	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	17329
3	KHALMISS SUTING	2263	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	19644
4	PHINIAL DHAR	2264	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	16163
5	IBASHISHA KHARSATI	2267	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	18404
6	PHIMAI SUTNGA	2271	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	19210
7	LILY POH BAN	2273	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	14071
8	KYRSOI SYIH	2275	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	18660
9	PHYRNAY SYRTI	2276	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	13913
10	RIDAMON SUCHEN	2277	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	14953
11	SPELBHA SUCHIANG	2322	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	14204
12	WONDERFUL PALE	2330	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	12761
13	RANSHI PUSEIN	2343	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	13911
14	SAPHA SIANGSHAI	2344	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	13657
15	EMLI DHAR	2345	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	13783
16	TALITHA RYMBAI	2349	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	13533
17	SHANIAH SHYLLA	2352	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	14490
18	CHEBARIMA BAREH	2362	FEMALE	02.06.2011	Workmen	HR&A	CLEANER	17000
19	MINA KHONGLAH	2269	FEMALE	01.04.2011	Workmen	HR&A	CLEANER	16184
20	NILDIS KHLUNG	3288	FEMALE	07.08.2012	Workmen	HR&A	CLEANER	13846
21	LUTMON LAMARE	3030	FEMALE	03.08.2012	Workmen	HR&A	CLEANER	12560
22	SHIDA SUTNGA	3316	FEMALE	01.07.2013	Workmen	HR&A	CLEANER	13721
23	HEL PAJAT	3244	FEMALE	03.08.2013	Workmen	HR&A	CLEANER	14037
24	PALDIS SUTING	3247	FEMALE	01.08.2013	Workmen	HR&A	CLEANER	14037
25	SABITRY KHONGLAH	3248	FEMALE	03.10.2013	Workmen	HR&A	CLEANER	13881
26	MARTHA CHALLAM	4051	FEMALE	04.05.2015	Workmen	HR&A	CLEANER	15500
27	SUMAR RYMBAI	4057	FEMALE	06.05.2015	Workmen	HR&A	CLEANER	13880
28	SABITRY LALOO	4086	FEMALE	12.06.2015	Workmen	HR&A	CLEANER	13568
29	SHELA SUTING	5088	FEMALE	17.05.2016	Workmen	HR&A	CLEANER	13880
30	HASINA SYRTI	5085	FEMALE	16.05.2016	Workmen	HR&A	CLEANER	11816
31	KYNJAILANG SYMPLI	5430	FEMALE	02.07.2018	Workmen	HR&A	CLEANER	13973
32	KMENLANG GYMPAD	5422	FEMALE	02.07.2018	Workmen	HR&A	CLEANER	13973
33	ISKAPAIA LAMARE	5429	FEMALE	02.07.2018	Workmen	HR&A	CLEANER	13595
34	KEEPHIM SYMPLI	5436	FEMALE	13.08.2018	Workmen	HR&A	CLEANER	13881
35	SOMLY SURONG	5589	FEMALE	17.08.2019	Workmen	HR&A	CLEANER	13177
36	HEIJINGMIAT RYMBAI	5587	FEMALE	17.08.2019	Workmen	HR&A	CLEANER	13177
37	SONITA RYMBAI	5590	FEMALE	17.08.2019	Workmen	HR&A	CLEANER	13115
38	DARI PUSEIN	5697	FEMALE	15.03.2021	Workmen	HR&A	CLEANER	11923
39	SYNDONG SYRTI	5703	FEMALE	18.03.2021	Workmen	HR&A	CLEANER	11870
40	MUNI SUTING	5706	FEMALE	19.03.2021	Workmen	HR&A	CLEANER	11708
41	RIMAIA SHADAP	4014	FEMALE	01.04.2022	Workmen	HR&A	CLEANER	10989
42	JUDICIAL RYMBAI	5834	FEMALE	04.07.2022	Workmen	HR&A	CLEANER	10989
43	SHEBA SHADAP	5835	FEMALE	04.07.2022	Workmen	HR&A	CLEANER	10989
44	ONJOLY PDANG	5836	FEMALE	04.07.2022	Workmen	HR&A	CLEANER	10989
45	WADLANG SYRTI	5846	FEMALE	05.08.2022	Workmen	HR&A	CLEANER	10791
46	MARGRED KHONGLAH	5847	FEMALE	08.08.2022	Workmen	HR&A	CLEANER	10791
47	PYNTNGEN SYRTI	5848	FEMALE	08.08.2022	Workmen	HR&A	CLEANER	10791
48	BARMON KHONGJONG	5448	FEMALE	01.04.2013	Workmen	HR&A	CLEANER	14037
49	MILAN BIAM	5915	FEMALE	11.04.2023	Workmen	HR&A	CLEANER	9810
50	THIANGMON PALIPAI	5918	FEMALE	11.04.2023	Workmen	HR&A	CLEANER	9810
51	EDEN DHAR	6035	FEMALE	01.02.2024	Workmen	HR&A	CLEANER	9000
52	NANGBUN SYRTI	6050	FEMALE	01.03.2024	Workmen	HR&A	CLEANER	9000
53	MERCIFUL SUTING	6076	FEMALE	02.05.2024	Workmen	WHRS	CLEANER	9000
54	SPARLY SUTING	6077	FEMALE	02.05.2024	Workmen	WHRS	CLEANER	9000
55	SARMON KHONGJONG	6078	FEMALE	02.05.2024	Workmen	WHRS	CLEANER	9000
56	HAPMON MUKHIM	6079	FEMALE	02.05.2024	Workmen	WHRS	CLEANER	9000
57	RIBIKA LAMARE	6156	FEMALE	03.12.2024	Workmen	HR&A	CLEANER	9000
58	IAISHAH SYMPLI	6163	FEMALE	01.02.2025	Workmen	HR&A	CLEANER	9000
59	ARKI SUTNGA	6164	FEMALE	01.02.2025	Workmen	HR&A	CLEANER	9000
60	LEM MUKHIM	6165	FEMALE	01.02.2025	Workmen	HR&A	CLEANER	9000
61	GRECENTY PAJUH	6176	FEMALE	01.04.2025	Workmen	HR&A	CLEANER	9000
62	PYNTTHIANGLANGKI SYRTI	6184	FEMALE	02.06.2025	Workmen	HR&A	CLEANER	9000
63	DA EMIKA SUMER	6185	FEMALE	02.06.2025	Workmen	HR&A	CLEANER	9000
64	PDIANG SUTING	6193	FEMALE	02.06.2025	Workmen	HR&A	CLEANER	9000
65	ANIIKA SUTING	6194	FEMALE	02.06.2025	Workmen	HR&A	CLEANER	9000
66	RANI SURONG	6195	FEMALE	02.06.2025	Workmen	HR&A	CLEANER	9000
67	SHEMKI DKHAR	6214	FEMALE	01.07.2025	Workmen	HR&A	CLEANER	9000
68	RINGEN NONGRUM	6226	FEMALE	01.08.2025	Workmen	HR&A	CLEANER	9000
69	MILI ROY	2282	FEMALE	01.04.2011	WKM	HR&A	CLEANER	11979
70	BABLI ROY	2284	FEMALE	01.04.2011	WKM	HR&A	CLEANER	14174
71	MEENATI MALAKAR	2328	FEMALE	01.04.2011	WKM	HR&A	CLEANER	14174



Anneauie - XIV

Photographs of several endemic species

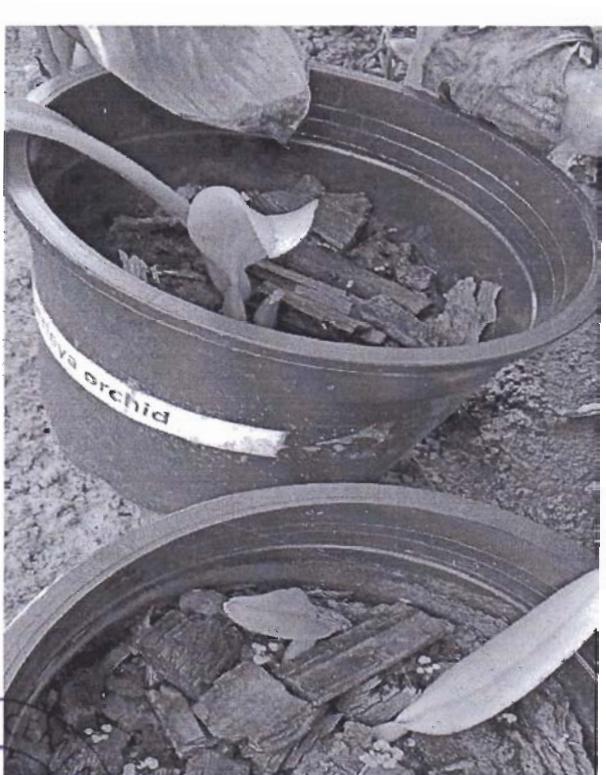
Nepenthes Khasiana, Nepenthaceae



Begonia rubrovenia, Begoniaceae



Ceologyne ovalis, Orchidaceae

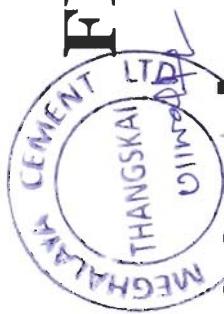


Anneauie - XV

MEGHALAYA CEMENTS LIMITED
VILL-THANGSKAI, P.O.-LUMSHNONG, DIST.- EAST JAITIA HILLS,
MEGHALAYA-793210

WELFARE & CSR ACTIVITIES

FROM



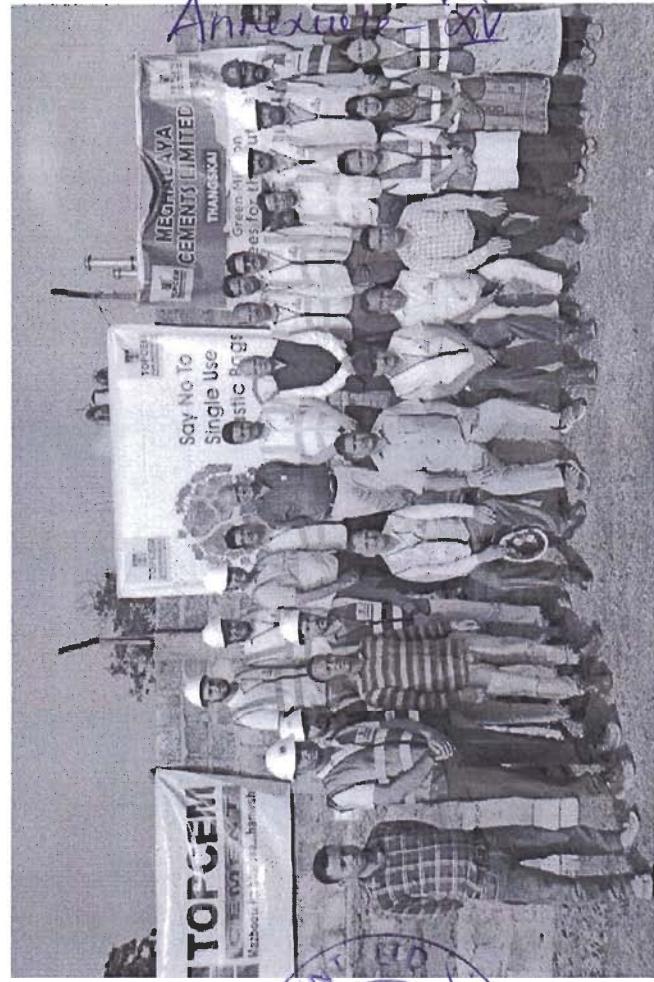
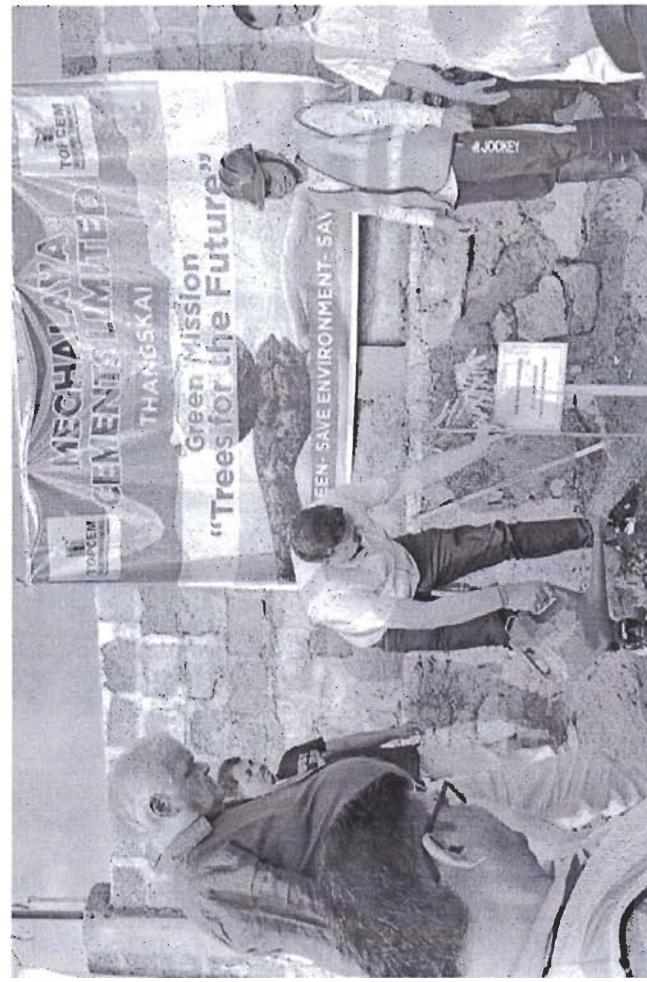
APRIL 2025 to SEPTEMBER 2025



DONATED FOOTBALL KIT TO WAHIAJER SPORTS CLUB



WORLD ENVIRONMENT DAY: PLASTIC BAN AWARENESS & PLANTATION DRIVE- INSIDE PLANT PREMISES



Annexure - XV

PLASTIC BAN AWARENESS & PLANTATION DRIVE AT THANGSKAI VILLAGE

T
©
March

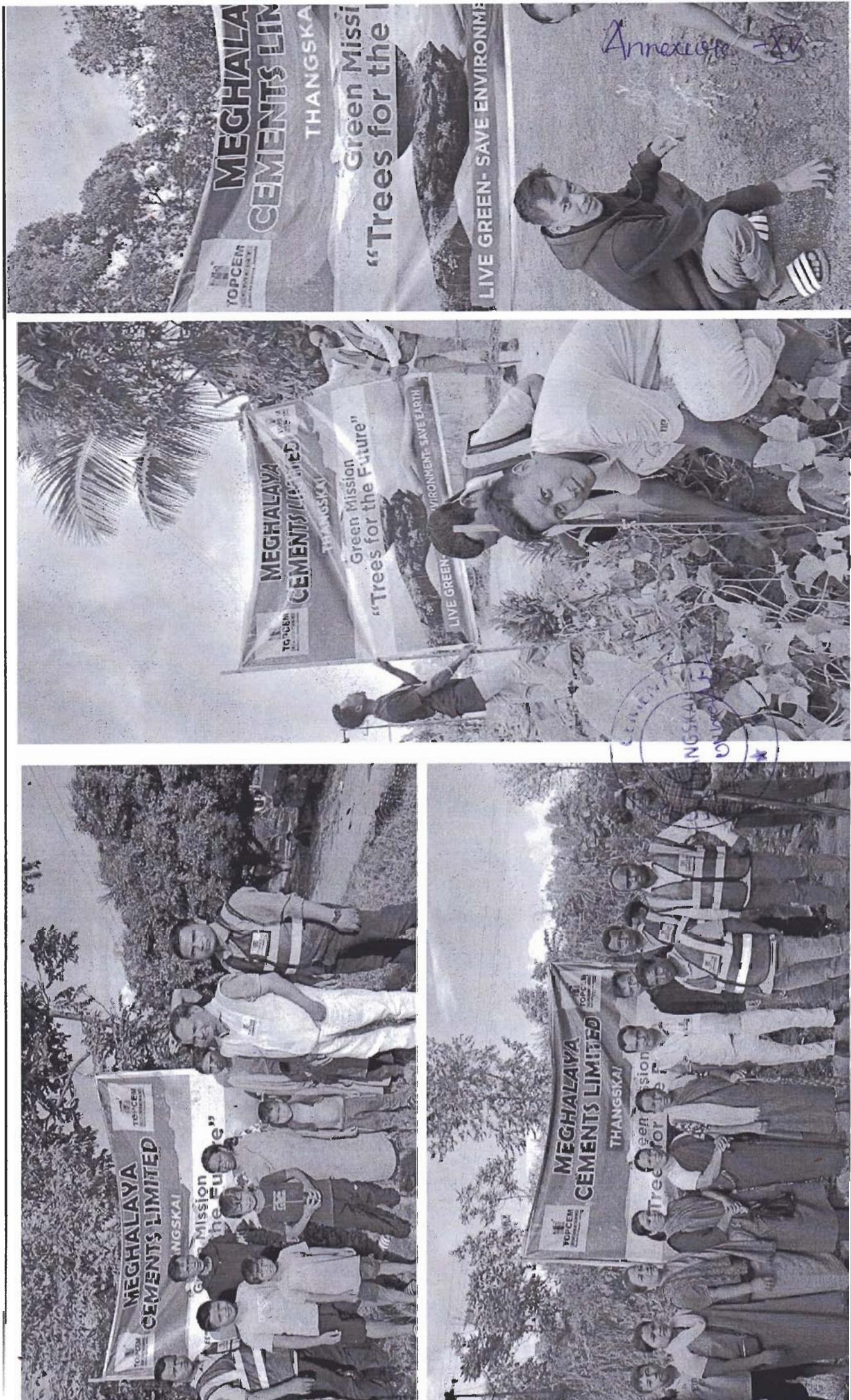


PLASTIC BAN AWARENESS & PLANTATION DRIVE AT CHIETHRUPHI VILLAGE

T
C
Mart

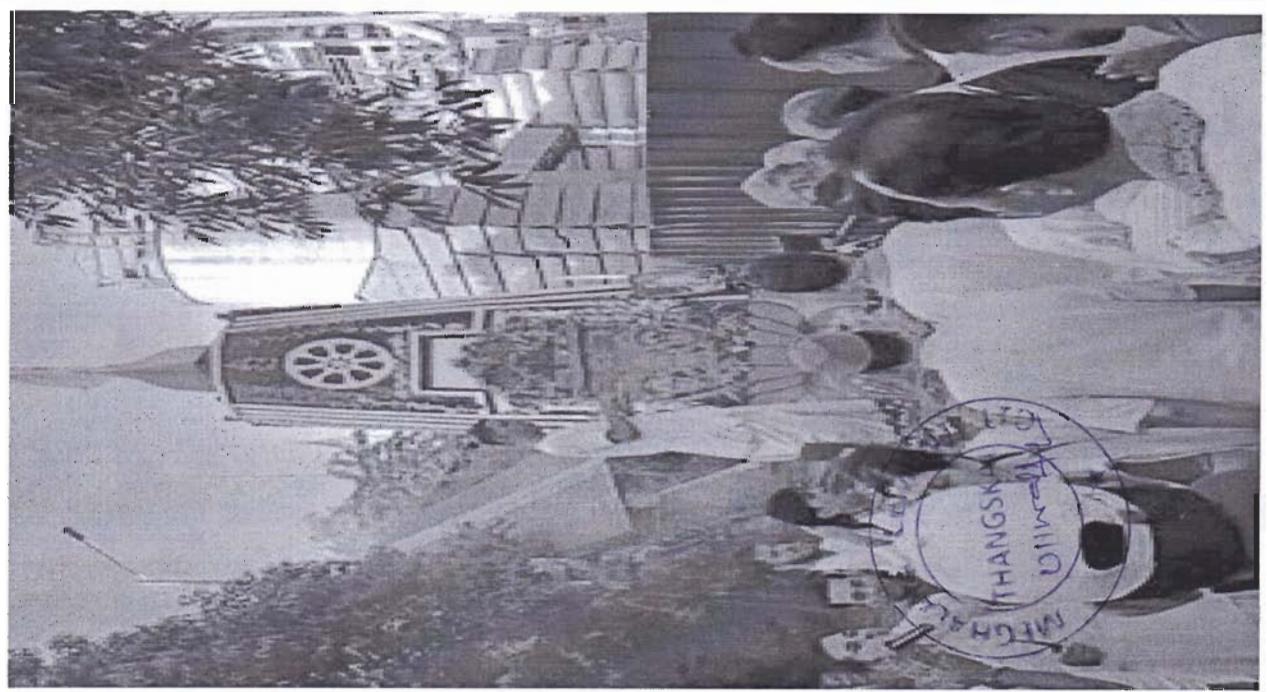
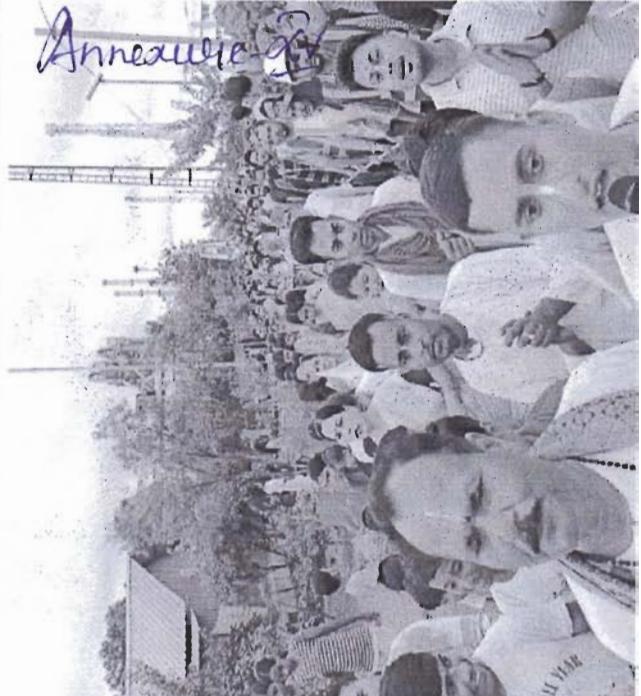
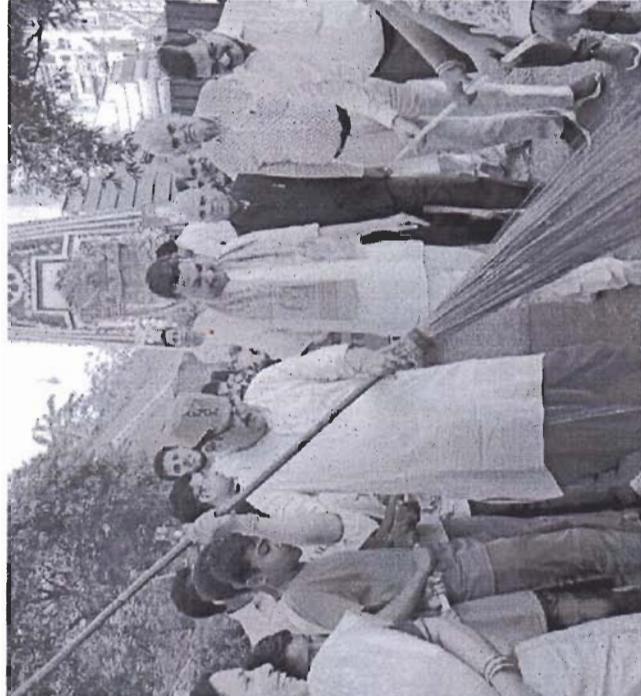


PLASTIC BAN AWARENESS & PLANTATION DRIVE AT WAHIAJER VILLAGE



LORD JAGANNA'H RA'I'H YA'I'RA

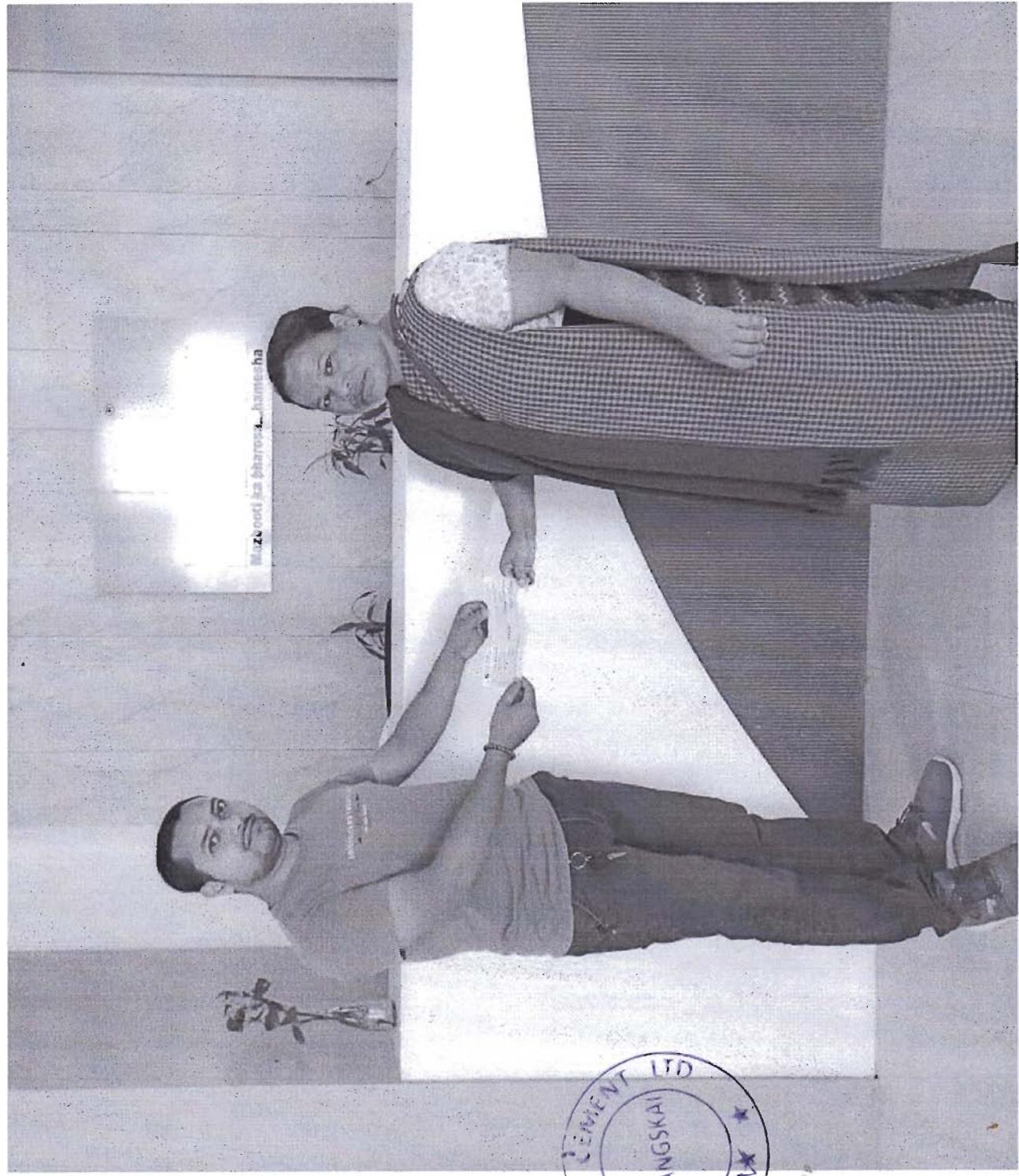
T C Mazz



FINANCIAL SUPPORT TO POOR FAMILY FOR MEDICAL
TREATMENT

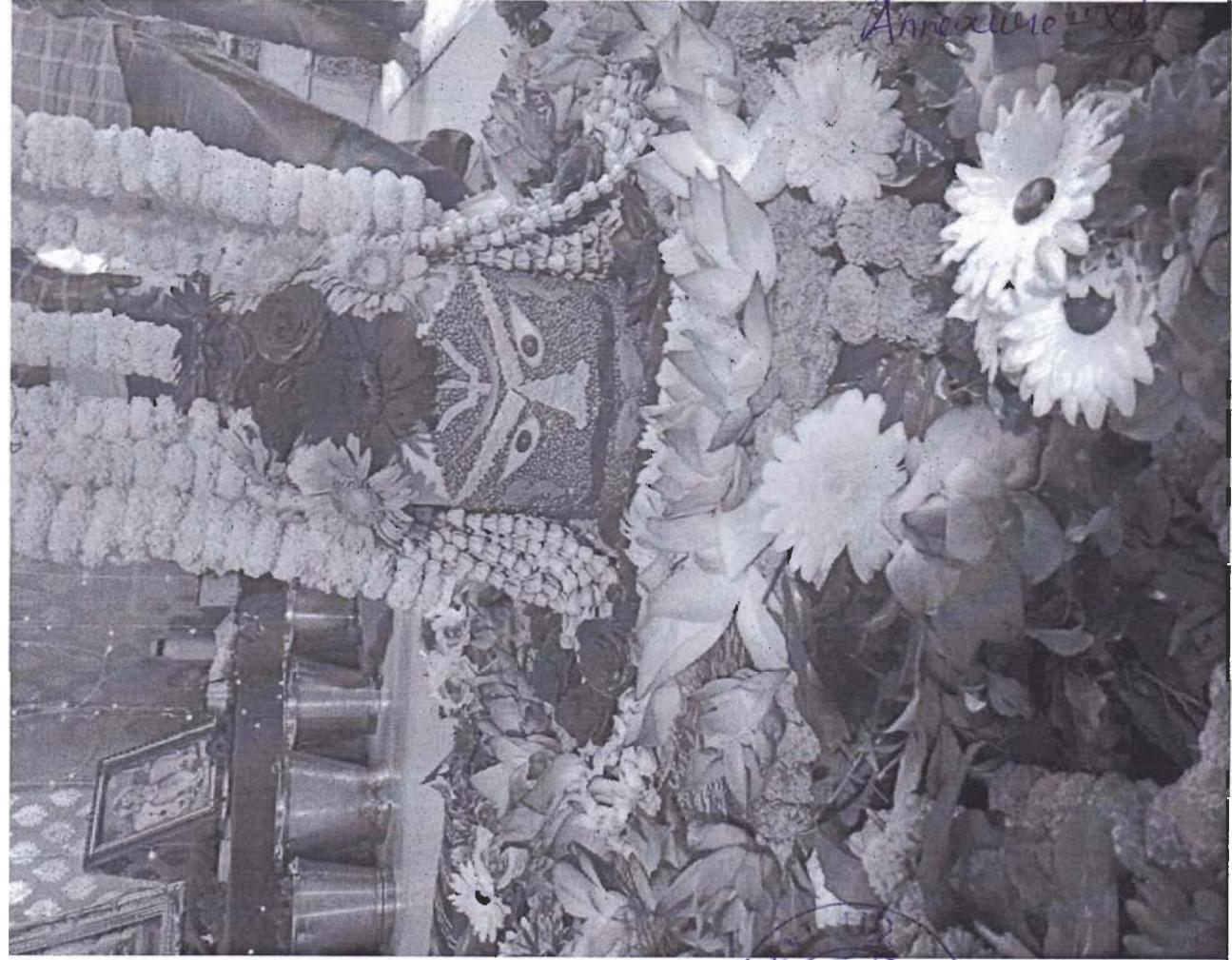
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Amneuse - xv



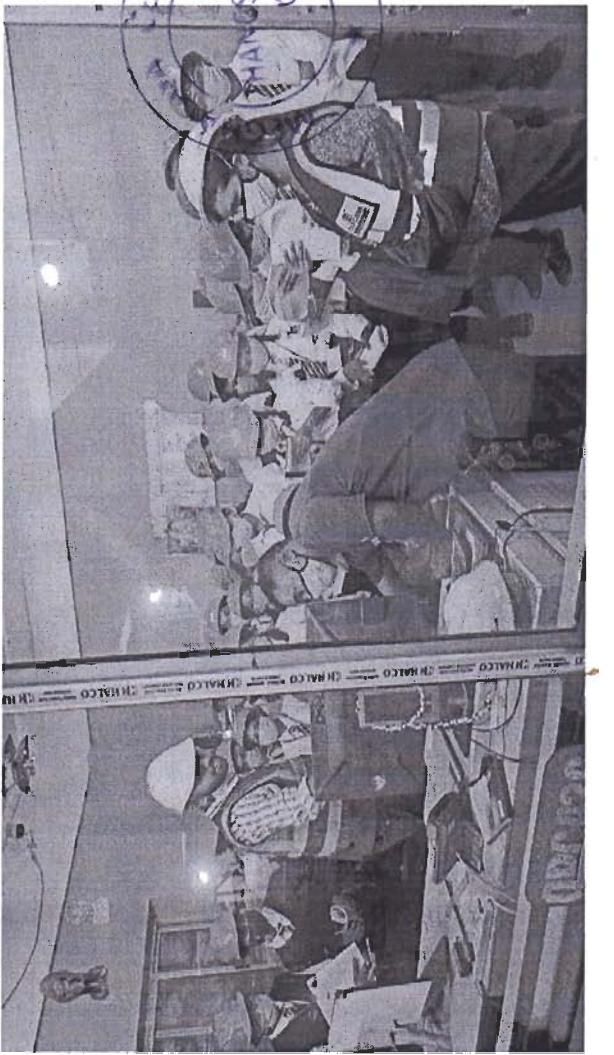
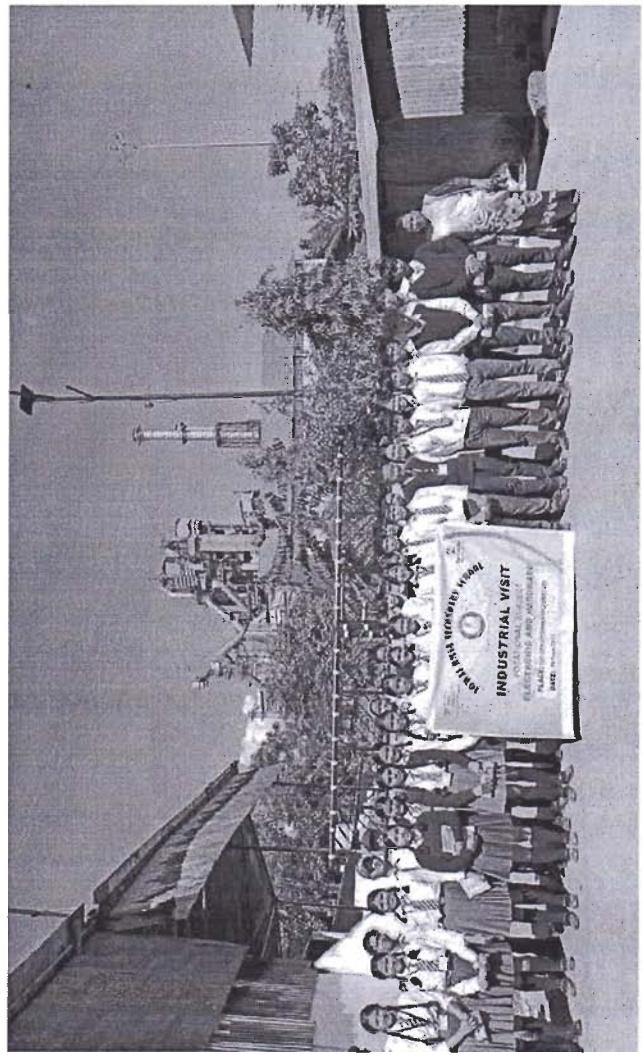
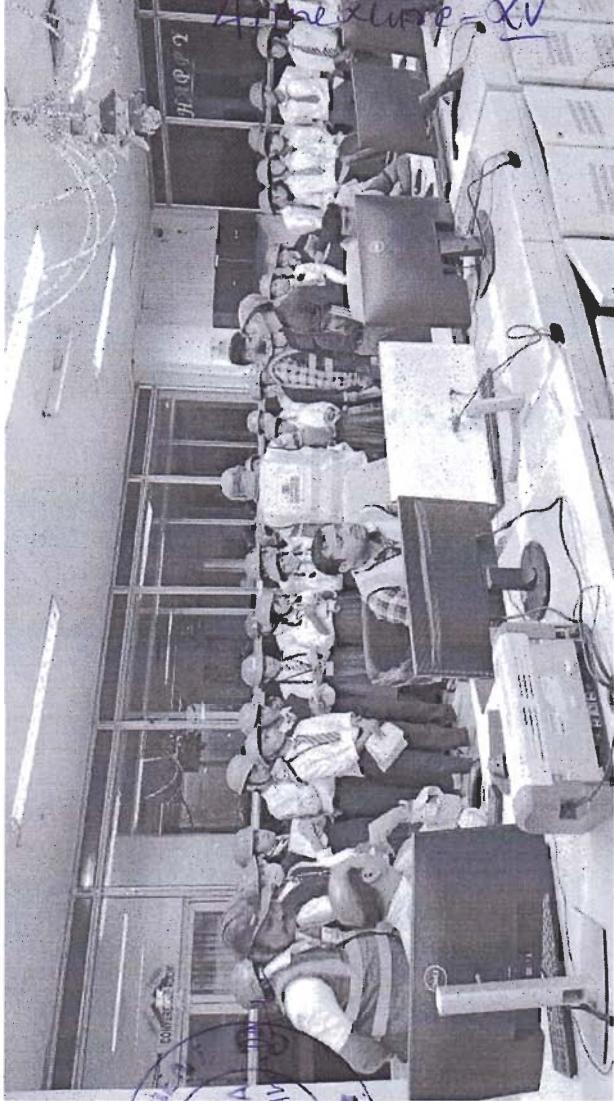
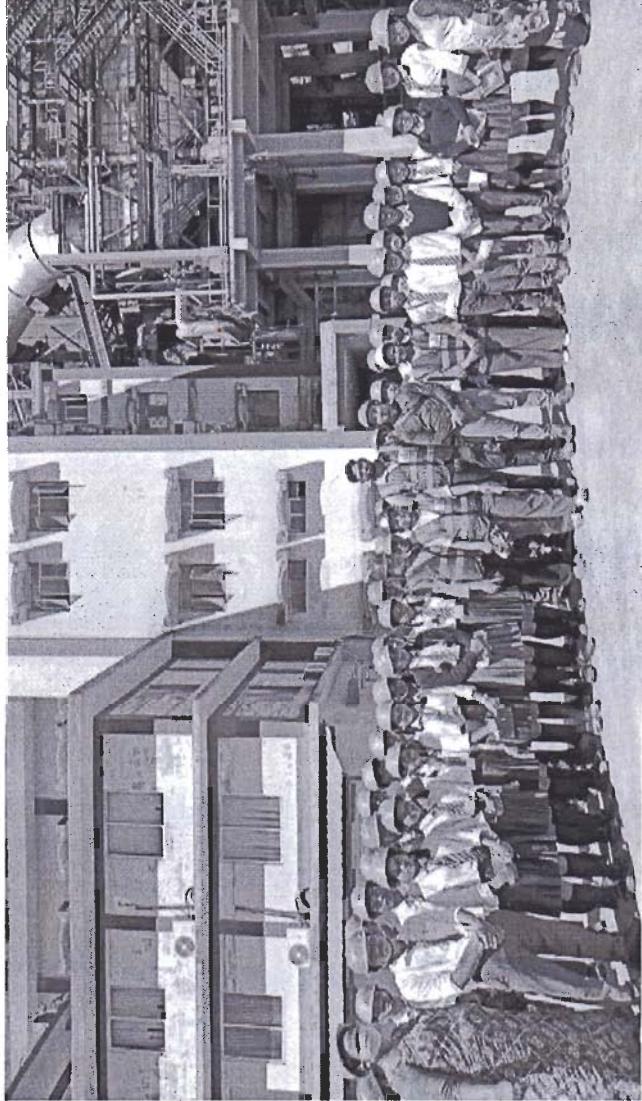
SAWANI MASS KUDKA ABHISHEK

T C Mazzt



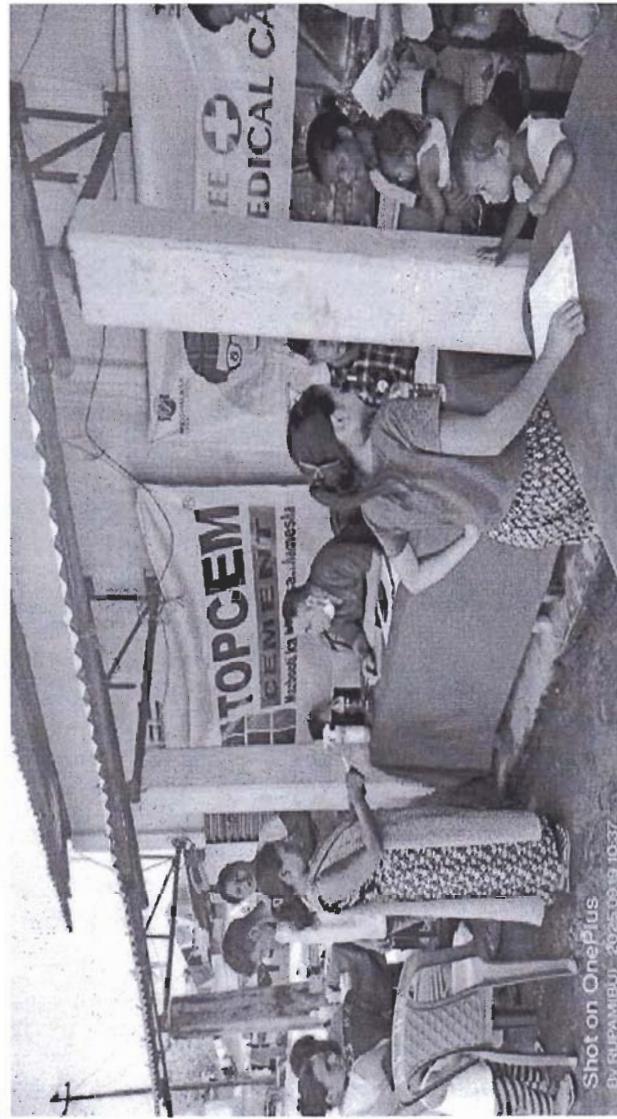
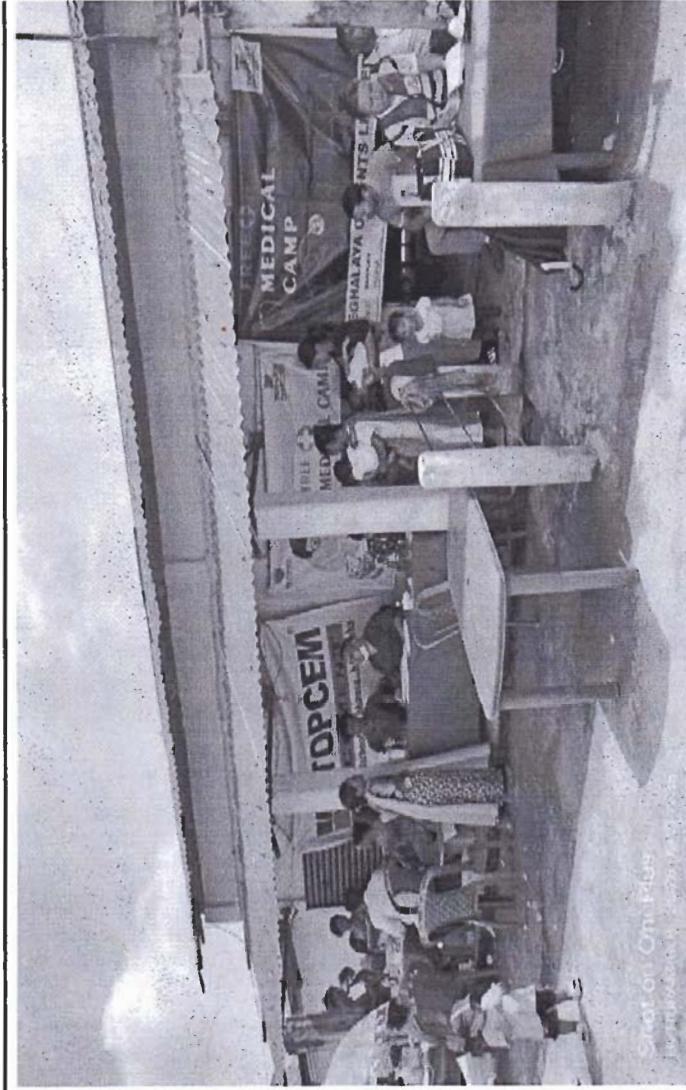
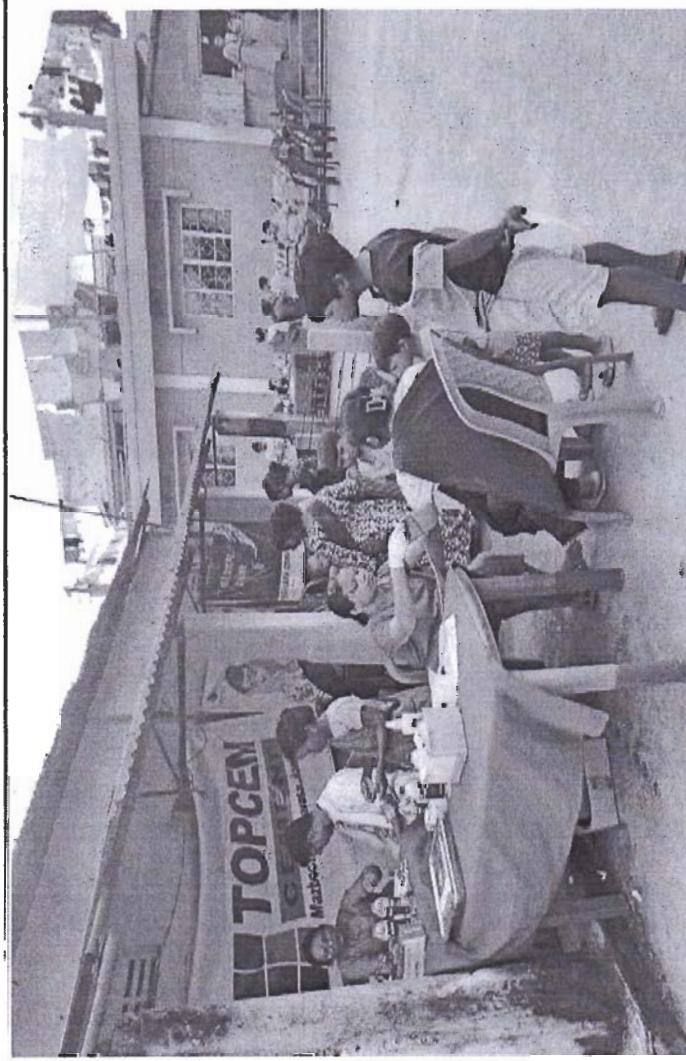
**SIUENI INDUSTRIAL VISIT
(JOWAI RMSA SECONDARY SCHOOL)**

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**FREE MEDICAL HEALTH CHECK – UP CAMP AI WAHIAJER
VILLAGE ON 19.09.2025**

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Annexe-xv



Shot on OnePlus
By RUPAMIEUJ 2025/09/19

FREE MEDICAL HEALTH CHECK – UP UAMR AI THANGSKAI
VILLAGE ON 20.09.2025

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FREE MEDICAL HEALTH CHECK – UP CAMP AT CHIENKURPHI
VILLAGE ON 25.09.2025

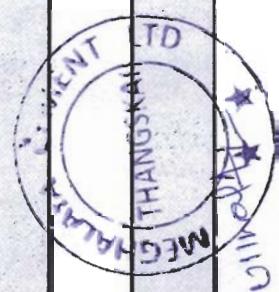


Annexe - xv

**EXPENDITURE INCURRED FOR SOCIO-ECONOMIC DEVELOPMENT
UNDER CSR (FROM 01.04.2025 TO 30.10.2025)**

SL.NO.	HEADING	AMOUNT
1	Emphasis on Education	1,38,000
2	Sports Activity	1,00,700
3	Encouraging/Felicitation prog. For Students.	40,000
4	Polio Immunization Camps, Family planning, etc.	4,41,624
5	Infrastructure development of Hospitals/Schools	21,000
6	Cement Distribution Programme.	45,41,388
7	Plant Distribution Programme.	40,212
8	Donation to Churches, Road & House Repairing etc.	1,05,700
9	Community Feast	42,950
9	Drinking water supplying scheme.	1,98,322
10	Village Development Funds.	3,12,500
Total (In Rs.)		58,82,396

Annexure-2V



W.M.W.

THANK YOU



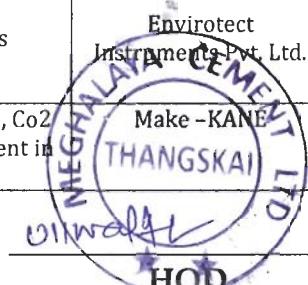
Meghalaya Cements Ltd.
Vill: Thangskai, P.O. Lumshnong, East Jaintia Hills, Meghalaya-793210

Environment Management Cell Details

Dept: 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	Envirotect Instruments Pvt. Ltd
3	Stack Sampler	APM -620 / 797- DTI-05 / Vayubodhan Envirotech Instrumentation	0 to 60 LPM & 0-to 3 LPM	Envirotect Instruments Pvt. Ltd
4	Stack Velocity Monitor	APM -602 / 835 DTJ - 05 / Vayubodhan Envirotech Instrumentation	0 to 60 LPM & 0-to 3 LPM	Envirotect 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	Envirotect 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	Envirotect Instruments Pvt. Ltd.
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	Envirotect 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	Envirotect Instruments Pvt. Ltd.
12	L Type Pitot Tube	For Flow measurement	03 to 30 m/s	Envirotect Instruments Pvt. Ltd.
13	Flue Gas Analyzer	Model No. 054218002	For SO ₂ , NO _x , CO, CO ₂ & O ₂ measurement in Flue gas	Make - KANE THANGSKAI



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

Environment Management Cell Details

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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 from Stacks	Make- Envirotech Inst. (P) Ltd.
19	Automatic station for recording of Ambient Quality Monitoring	Installed near gate no. 03	For 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	For real time monitoring of stack emission	Supplied by Glens
21	Portable Air Quality Analyzer	For Real time Ambient air quality monitoring	For 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: 0.2 mg/L	HANNA EQUIPMENTS (INDIA) PVT. LTD. MEGHALAYA THANGSKAI Uttarakhand HOD



HOD

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

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