



Ref: MCL/ENV/MoEF&CC/Compliance-II/2025-26/13

Date: 23/06/2025

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 October'2024 to March'2025.

Dear Sir,

We are hereby furnishing the half yearly compliance report (hard copy and soft copy) for the period from October'2025 to March'2025 on Environmental Stipulation for Expansion of Cement Plant (from 900 TPD to 2600 TPD) along with 10 MW 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:

THANGSKAI TO



Receipt No.

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



Sales & Marketing Office : Mega Plaza, 4th Floor, Christian Basti G.S. Road, Guwahati - 781 005 Tel. : 0361 2345421/22/23, Fax : 0361 2345419 E-mail : guwahati@topcem.in Web : www.topcem.in Kolkata : BE-77, Salt Lake City Sector-1, Kolkata - 700 064 Tel. : 033 2334 0666 / 0004 Fax : 033 2334 0505 E-mail : kolkata@topcem.in Registered Office : Village: Thangskai, P.O. & P.S. Lumshnong District : East Jaintia Hills, Meghalaya, PIN: 793210 Tel. : +91 89742 17765 / 70850 58469 / 98625 00599 E-mail : meghalaya@topcem.in Half yearly Compliance Report (for the period October'2024 to march'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.

| | as per letter dated 25.03.2009 of State onment Impact Assessment Authority | Compliance Status | | | | |
|-------|---|---|--|--|--|--|
| | CIFIC CONDITIONS | | | | | |
| (i) | 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. | 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 ofOctober'2024 to March'2025:- | | | | |
| | | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | | |
| (ii) | 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/Nm ³ | 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 October'2024 to March'2025.Oct'Nov'2024202420242024202420242024202420242024202420242024202420242024202420242025202520252025PM4444444444 | | | | |
| (iii) | 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. | 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 Sox is being submitted to MsPCB. Tested data for Captive Power Plant Stack is mentioned below for the period of October'2024 to March'2025. | | | | |
| | UIIV all | 2 | | | | |

L

| | | SO ₂ | Oct' 2024 408 | Nov' 2024 416 | Dec' 2024 422 | Jan' 2025 320 | Feb' 2025 546 | Mar' 2025 409 | Avg. 420 |
|-------------|--|--|--|--|---|--|--|---|--|
| (iv) | Space provision shall be made for Flue Gas De-sulphurisation [FGD] unit of requisite efficiency for removal of SO2 when required at a later stage. | Complied with.Space provided for Flue Gas De-sulphurisation [Funit of requisite efficiency for removal of SO2 orrequired at a later stage. The Project proporareusing CIL Auction coal in Captive power pThe Company has maintaining SO2 in flue gas wthe prescribed range. Also, provision for lime feedin boiler through over bed feeding system hasmade to reduce the formation of SO2. Monthly refor the Analysis of Sox is being submitted to MsITested data for Captive Power Plant Stacmentioned below for the period of October'202March'2025.Oct'Nov'202420242024202520252025 | | | | | | [FGD] 2 wher conents plant withir feeding is beer / repor 1sPCB ack is 024 to Avg. | |
| | | SO ₂ | 408 | 416 | 422 | 320 | 546 | 409 | 420 |
| (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. | Water plant particle Mobile Permai along t other v | lied wi sprinkl premise es are p e tanker nent Wa he haul rulnerat is work | ing is l resent fitted ater Sp road i ble area | the pl and als with sp rinkler n the C ato redu | laces so on in prinkle s has a CPP, Co uce the | where nternal rs. Iready cal stor | fugitiv roads t installe age are | re dus hrough ed ea and |
| (v) (vi) | with water sprinklers shall be provided for controlling fugitive dust during transportation, in coal storage area and other vulnerable area | Water plant particle Mobile Permai along to other w which Comp Water meetin rainy operati No ext for an Power | sprinkl premiso es are p e tanker nent W he haul rulnerat | ing is less on resent fitted ater Sp road i ole area ing eff th. ement Chyr PP is Captive of grovities. is men | the pl and als with sp rinkler n the C to redu- ticienthe for the nryntor using Power und wa Water ntionec | laces so on in prinkle 's has a CPP, Co uce the y. e Ther ng-Um g Seep Plant. ater is l consu l below | where nternal rs. lready bal stor fugitiv mal P- parti H age Ri being d mptior | fugitiv roads t installe age are ve emis ower F River. ain wa lone by n for (| re dust hrough ed a and sion Plant is During ter for the PP Captive |

.

| (vii) | Closed Cycle Cooling system with induced draft cooling towers shall be provided in the Thermal Power Plant. | Complied with. Closed cycle cooling system has been adopted and recirculation of cooling water is being practiced. 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. |
|---------------|---|--|
| (viii) | Fire protection system shall be made in coal stock yard and other vulnerable areas of the TPP. Fire protection equipment and machinery should be tested periodically and shall always be kept in operational mode. Mock drills shall be conducted regularly. | Complied with. Fire protection system along with fire extinguisher of various types is already installed within the entire 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 anAnnexure-I Also, Summary sheet ofperiodic 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 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. |
|---|-------|--|--|
| | (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. | Complied with. 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 24 th 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 21 st Nov 2007, Office of the DolloiElakaNarpuh, 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 05 th June 2007. Copy of the all NOC are attached as Annexure- IV |
| | (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. | Complied with . 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 limiti.e 75 dB. The regular routine testing of the machinery is been carried out as per the manufacturers' manuals Periodically examination of employees is being done |
| L | | CHANGSKAI | 5 |

| | | any hearing loss shifting to non-no Analysis report fo Annexure-V | apart from exe isy/less noisy area r Noise level attac yees who have exa | |
|--------|---|---|--|---|
| (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. | the Thermal Powe been provided to noisy area and re Noise pollution | er Plant. Also, Ear the workers who gularly observed has regularly | acoustic hoods in muff/Ear Plug has engaged in highly by Safety Officer. monitored by ed report attached |
| (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. | completely collect loaded into tanker | ts in silo through I s for feeding to ce ence 100% consu | Power Plant is ESP and it is being ment mill hoppers mption of the ash plant. |
| (xv) | The stack emission from various sources shall not exceed 50 mg/Nm3 | monitored regular Total 13 stack are Power Plant. Mon basis.All the pa | ly for PM, Sox and e existing in plant itoring of Hg beir arameters are n | ous sources has d Nox. including Captive ng done on regular naintained within acks as mentioned |
| | | Chimney | Avg. of Oct'24 to | Permissible |
| | | | Mar'25 | Limits (mg/Nm3) |
| | | Pr. Crusher | 17 | 30 |
| | | Sec. Crusher Coal mill 1 | 19.33 23.66 | 30 |
| | | Coal mill 2 | 23.00 | 30 |
| | | RABH-1 (PM) | 22 | 30 |
| | | RABH-I (Sox) | 636.16 | 1000 |
| | | RABH-1 (Nox) | 312,16 | 600 |
| | | RABH-2 (PM) | 22 | 30 |
| | | RABH-2 (Sox) | 636 | 1000 |
| | E WAYA CEMIER | RABH-2 (Nox) | 299.66 | 600 |
| | ATA CEMAN | ESP 1 | 26.50 | 30 |
| | | ESP 2 | 27 | 30 |
| | 51-171 | Cement Mill No-1 | 24.50 | 30 |
| | IST IT DANCE WAR | Cement Mill No-2 | 23.83 | 30 |
| | (2 (THANGSKAI) _) | | 21.17 | |
| | (THANGSKAI) | Packing House-1 | 24.17 | 30 |
| | E wolt 5 | Packing House-1 Packing House-2 | 23.17 | 30 30 |
| | Through 5 | Packing House-1 | | 30 |

| | | CPP (Nox) | 187.66 | 300 |
|------------|---|--|---|--|
| | | CPP (IIg) | 0.008 | 0.03 |
| | | Reports are attached | ed as Annexure-V | 7 |
| (xvi) | The project proponent shall get the optimum functioning of the environmental protection equipment certified by a technical institution of repute. | Complied with . Performance asses the norms by th results are subi protection equipm continuously main to maintain the e Pollution Control | e NCCBM, New mitted carlier for ent. Further the pr ntaining the polluti efficiency. Regula | Delhi. The tes or environmenta oject proponent is on control devices r maintenance o |
| (xvii) | Bag House/Filters shall be provided to control the fugitive emission during loading and unloading of raw materials/intermediate and finished products. | Complied with. Nuisance bag filt provided to contro Mill, Coal Mill, I Regular maintena efficiency of th Pollution control monitored regular | ol fugitive emissio Kiln, Cement mil nce is being don e Bag House/F device. Fugitive e | n at Crusher, Rav & Packing Plant e to maintain the ilters and othe |
| | | Location | Avg. of Oct'24 to Mar'25 | As per standard limit (µg/m ³) |
| | | Lime stone Storage Area | 1420.16 | 5000 |
| | | Coal Storage Area | 1220.50 | 2000 |
| | | Clinker Loading Area | 2171.50 | 5000 |
| | | Cement Loading Arca | 2257.16 | 5000 |
| | | Coal Storage Area (CPP) | 1037.16 | 2000 |
| | | Fly Ash Silo Area (CPP) | 1102.83 | 2000 |
| | | Detailed report is a | attached as Annex | ure-VII |
| (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. | Complied with . All the raw mat stored in covered additional Coal S hydrants and per Coal is being store | d shed. We hav hed with impervi manent water spi | e constructed ar ous flooring, fire inkling facilities |
| .viii) (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). | Agreed for compl We have construct impervious floori water sprinkling impervious ceme | cted an additional ng, fire hydrants | s and permanen |

l

| | | | NOx | 8.63 | 80 | |
|-------------|---|---|---|--|--|--|
| | 0111 * * | | <u>SO2</u> | 7.33 | 80 | |
| | wat | | PM 2.5 | 36.56 | 60 | |
| | 2 011 | Guest House | PM 10 | 67.15 | 100 | |
| | 2 | Guest House | | | 80 | |
| | (C (THANGSKAI) | | NOx | 7.86 | · · · · · · · · · · · · · · · · · · · | |
| | | | SO2 | 6.76 | 80 | |
| | No Me | Building | PM 2.5 | 40.87 | 60 | |
| | JUANA CEANER | Near CCR | PM 10 | 70.98 | 100 | |
| | | Flocation | . arameters | Oct'24 to Mar'25 | limits | |
| | | Location | Parameters | Avg. of | Permissible | |
| | maximum ground level concentrations are anticipated. | installed near Plant entrance gate in consultation w the Meghalaya State Pollution Control Board. | | | | |
| | downwind direction as well as where | | | | toring station | |
| | additional stations shall be installed, in the | | | | s. SO2, NOx. | |
| | Pollution Control Board (MsPCB) and | | | | re anticipated. | |
| | consultation with the Meghalaya State | | - | | n and where | |
| | shall be set up as per statutory requirement in | The testing of | f ambient air d | | g done at four | |
| (xix) | The ambient air quality monitoring stations | Complied wi | | | | |
| | | effectiveness The acknowl Tank and Ana Annexure-V | of Neutralizin edged copy o alysis report is III. | ng Tank to Me f Approval of | SEB. f Neutralizing | |
| | | Control Board vide letter no. MPCB/TB-CON-14 2007/2023-24/24, Dated Shillong 26 th February 2024 PP has submitted Analysis report for checking | | | | |
| | drain, which shall be duly approved by the Meghalaya State Pollution Control Board. | Neutralizing | Tank from i | Meghalaya S | proval for the tate Pollution | |
| | before releasing the water to the drain/natural | | | | e water to the | |
| | Project Proponent in the Neutralization Tank | | | | ponent in the | |
| | treatment of AMD shall be done by the | into any drains/natural drains. Proper treatment of | | | | |
| (xviii) (c) | No direct discharge of AMD into any drains/natural drains shall be allowed; proper | | naintaining N | | arge of AMD | |
| | | Annexure-V | | | | |
| | | PP has subr effectiveness The acknowl Tank and An | nitted Analys of Neutralizir edged copy o alysis report is | sis report for ng Tank. f Approval o | checking of fNeutralizing | |
| | Neutralization tanks, in consultation with and approved by the state pollution control board. | Control Boar | | no. MPCB/7 | tate Pollution FB-CON-143- | |
| | | consultation control boar | with and appr d. PP has | oved by the sadopted appr | zing tanks in state pollution oval for the | |
| (xviii) (b) | The project proponent shall construct garland drains along with Acid Mine Drains | | proponent has | | garland drain | |
| | | (AMD). | | | | |
| | | | all sides to | prevent Acit | | |

| | | Crusher | PM 10 | 77.10 |) 100 |
|-------|---|--|--|---|---|
| | | Crusiter | PM 2.5 | 43.76 | |
| | | | SO2 | 8.73 | |
| | | | NOx | 9.06 | |
| | | DG House | PM 10 | 58.82 | |
| | | (Downwind | PM 2.5 | 33.33 | |
| | | direction) | SO2 | 7.67 | |
| | | | | | |
| | | | NOx | 8.97 | 80 |
| (xx) | Quarterly reports on emission levels, surface and ground water quality shall be submitted to | Detailed repo Complied. Report on | | | eing 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. | Meghalaya S attached as A Chromium (Y flowing in th River) are is submitted to The results Oct'24-Mar'2 0.0247 for Do Detailed repo attached as ar | State Pollution nnexure-V (I) level in no ne eastern sitt being monitt MSPCB witt of Chromiun 25are 0.0269 ownstream. rt of Chromiun | on Contro tearby sur te of the ored on r h Half y n (VI) fo mg/t f | and backwater bodies face water bodies Plant (i.eUmparti monthly basis and early compliance. for average of the for Upstream & pr Surface water is |
| (xxi) | 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 m ³ /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. | including TF Treatment Pl with the help 100% treated development Treatment P effluent wate 100% treated HEMM vehic outside the pl by the compa factory prem River or any | P. The PP ant to treat to of suitable and water is be and dust ant (ETP) r generated find water is be cle. No waster remises and zo any. There is ises either re- other stream | has insta the domes and appro- ting utiliz suppression has insta rom Auto ing utilize e water is ero discha no surfac each/conta flowing to | ceed 2000cum/day alled the Sewage stic sewage water priate technology. ed for green belt on.Also, Effluent lled to treat the mobile workshop. ed for washing of being discharged arge is maintained ce runoff from the aminate Um-lunar near the industrial mentioned here: - |
| | JUNA CEMEN | Location | Ma | Oct'24 to r'25 | Water Consumption not exceed |
| | (SU (THANKS SHRI) | Domestic consumption | | 1.54 | |
| | E Left or | Cement Plant Industrial consumption | 47 | 1.54 | 2000 m³/Day |
| | UNIT | WHRS Industr consumption | ial 25 | 6.19 | |
| | | Captive Power | 47/ | 4.64 | |

| | | Plant consumption |
|---------|---|--|
| | | 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. | Complied with. The project proponent has made anAutomated mechanical arrangement for feeding of high calorifie value hazardous waste in the kiln in Tertiary Air Duc (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 17 th Dec 2019 for Plastic waste, Scrap Tyre and Wood chips. |
| (xxiii) | The project proponent shall transport raw materials and industrial products through covered means. | 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. |
| (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. | Complied with . Development of Green belt had been started in the Year 2009 and 100% of the project area (i.e. 20.2. 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). Tota plantation including project area and around the project area is 19.9253 Ha. Details of the Plantation is attached as an Annexure-X |
| (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. | Complied with. The Health Care Centre is functioning under qualified Doctor, Nurses and staffs. With all emergency medicine and ambulance to mee up the emergency. Complied with. Proponent has appointed Competent Occupationa Health Specialist including Medical Officer, Dentist Nurse, Compounder, Lab Technician & Dresser fo 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 second seco |

| | | 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, Homocyto Meter 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-XI . |
|---------|--|---|
| (xxvi) | 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. | Complied with . The salaries of Cleaners are being reviewed on the yearly basis. Total 63 Cleaners are working and details of salary is attached as Annexure-XII |
| (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. | Complied with . 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 hasalready submitted to IRO-Shillong vide letter no MCL/ENV/MoEF&CC/Compliance-I/2022-23/35, dated 10th Dec'2022. |



.

| (xxviii) | The project proponent shall take all such | Complied with. | | |
|---------------|---|---|--|--|
| | measures as are necessary in the matter of | The Project proponent ensures that no unscientific | | |
| | utilization of limestone towards ensuring that | extraction of limestone is encouraged in the process. | | |
| | no unscientific extraction of limestone is | The best mining practices are being adopted by the | | |
| 1 | encouraged in the process. | 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. | | |
| | Markeland has been as a sized on a soll. For | Compliand with | | |
| xxix) | Meghalaya has been recognized as a cradle for several endemic species and an important | Complied with . The company has already doing work on Biodiversity | | |
| | constituent of the biodiversity hotspots spread | Conservation of Schedule-I species in co-ordination | | |
| | over North East India. Therefore, as a measure | with Environment Department of North Eastern Hill | | |
| | of protection of rich biodiversity of the region, | University (NEHU), Shillong since 05 (five) years. | | |
| | the project proponent shall cover an area of | The NEHU, officials have already appointed a Project | | |
| | not less than 2 ha where would be located | fellow for the Project and they are working at our site | | |
| | green house, mist chamber etc. (within the | on Biodiversity Conservation Plan with focus on | | |
| | green belt area already stipulated above), | conservation of the schedule – I species in the area. | | |
| | locate conservation plots in respect of at least | The greenhouse already developed with mist chamber | | |
| | two of the following species of endangered | and conservation of three flora species namely: | | |
| | and endemic plants reported to have been | i) Nepenthes Khasiana, Nepenthaceae | | |
| | occurring within the region: | ii) Begonia rubrovenia, Begoniaceae | | |
| | i) Pteracanthusgriffithianus, Acanthaceae ii) Nepenthes Khasiana, Nepenthaceae | iii) Ceologyneovalis, Orchidceae | | |
| 1 | iii) Argostemmakhasianum, Rubiaceae | iv) Cymbidium Orchidcearv) CattelyaOrchidceae | | |
| | iv) Fimbristylishnigrobrunnea, Cyperaceae | vj CunciyuOrtmuteue | | |
| | v) <i>Trivalvariakanjilali</i> , Annonaceae | Project report on Biodiversity Inventrorization and | | |
| | vi) Begonia rubrovenia, Begoniaceae | Conservation through Assisted Regeneration of RET | | |
| | vii) Ceologyneovalis, Orchidceae | Species has already submitted to IRO-Shillong vide | | |
| | | letter noMCL/ENV/MoEF&CC/Compliance- | | |
| | A scheme /conceptual plan of raising such | 1/2022-23/35, dated 10th Dec'2022. | | |
| 1 | threatened species shall be prepared in | Photographs are attached as an Annexure-XIII | | |
| } | consultation with a reputed institution such as | | | |
| | - FAS - AP | | | |
| | FUNTA CENTRE | 12 | | |
| авона с | THANGSKALL | 12 | | |
| 48900-0480- u | THANGSKAI) | 12 | | |
| | THANGSKAIL | 12 | | |

•.

| (xxx) | Botanical Survey of India complete with cost and activity schedule within one year from date of issue of prior Environmental Clearance. The project proponent shall sponsor research and development for conservation of | Complied with . The company has already doing work on Biodiversity |
|--------|---|--|
| | threatened category of species occurring locally such Hedychiumdekianum, [Zingiberaceae], Cymbidium eburneum (Orchidceae), or Dendrobiumdenonianum (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. | 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: i) Nepenthes Khasiana, Nepenthaceae ii) Begonia rubrovenia, Begoniaceae <i>iii) Ceologyneovalis, Orchidceae</i> <i>v) CattelyaOrchidceae</i> Photographs are attached as Annexure-XIII |
| (xxxi) | 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. | 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 discussed in the meeting held at Regional Office MoEF&CC, Shillong. |



ч.

•

13

-

| (xxxii) A sum of Rs.2109.52 lakh shall be spent Complied with. | |
|--|------------------------|
| | |
| towards capital expenditure as stated by the The Company has installed Pollution | |
| project proponent towards environment to control the air, water & noise poll | |
| protection and a further sum of Rs.501.60 lakh process. Regular maintenance of PDC | |
| as recurring cost annually shall be spent by the out by the company. The revenue | e expenditure |
| project proponent towards environmental incurred on an environmental protection | n equipment's / |
| protection. Machineries (from October'24 to 1 | |
| mentioned below: - | |
| | |
| | nount in Rs. |
| Plant Bag Filters (Crusher, Raw | |
| | 544732.3 |
| ESP (SP (SP (SP (SP (SP (SP (SP (SP (SP (| 22((0)()(5 |
| | 336606.65 3322694.0 |
| Sewage Treatment Plant, Effluent | |
| Treatment Plant & Neutralization Pit | 26547 |
| Green Belt Development | 54096 |
| Environment Miscellaneous | 295663 |
| | 5800339.55 |
| | |
| | |
| (xxxiii) A sum of Rs.50 lakh shall be utilized annually Complied with . | |
| by the project proponent till the project Implementation of socio-economic/eco | • |
| subsists towards socio-economic/eco- activities has been done towards distrib | |
| development activities in the area part of medicines, malaria eradication program | etc. in the |
| which shall be spent towards distribution of nearby villages. Company has also sper | nt funds |
| free medicines, malaria eradication program annually towards creation of employees | |
| etc. in the nearby villages. A portion of the The company has spent Rs.58,98,833.0 | |
| sum (5%) shall be set apart annually towards following activities under Socio-Econor | |
| creation of employees' welfare fund. Details Development under CSR activities (dur | |
| | ation |
| of expenditure incurred under this Para shall October'24-March'25): - | |
| form part of the compliance report to be 1. Emphasis on Education | |
| submitted to the SEIAA/SEAC. Further, a 2. Sports Activity | |
| comprehensive long-term eco-development 3. Encouraging/Felicitation program | for Students |
| plan shall be prepared by the project 4. Polio Immunization Camps, family | |
| numerous within six months of provint of | |
| nier Environment Clearance | pitais / |
| | |
| 6. Cement Distribution Programme | |
| 7. Plant Distribution programme | |
| 8. Donation to Churches, Road & Ho | use Repairing |
| etc | . 0 |
| 9. Community Feast | |
| | |
| 10. Drinking water supplying scheme | |
| 11. Village development funds | |
| Detailed report is attached as an Annex Further, a comprehensive long-term ecc | uro VIV |
| Detailed report is attached as an Annex | |
| Further, a comprehensive long-term eco | |
| (S(THANGSKA)) plan shall be prepared by the project pro | oponent with |
| Further, a comprehensive long-term ecc plan shall be prepared by the project pro the help of NEHU Shillong. Report is already submitted vid | |
| Report is already submitted vid | le letter no. |
| MCL/Env/MOEF&CC/2021-22/05; Dt: | |
| | |

•

I

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:

| 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. | State Gove framed/mo | any has foll ernment or dified from | any other s | tatutory bo | dy as |
|---|---|---|--|---|--|
| 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. | The Proje provisions Governmen Supreme (project. 7 provisions Governmen | ct Propon of any nt and judi Court/High The PP of any nt and judi | ent is not Acts, Ru cial orders Courts/NO has follov Acts, Ru cial orders | ules Orde issued by t GT, applica wing all ules Orde issued by t | rs of the he Hon'ble able to the applicable rs of the |
| 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. | As per EC ML/SEIA 24 th Noven production for both Ce maintainin MTPA bot working. T | Amendme A/PROJEC nber 2021) of 8, 58,00 ement and g the Annu h Cement a The detail o | nt (Ref. Le T-2/2007/9 company c 20 MTPA a Clinker.The al producti and Clinker f Cement & | 37; Dated, can produce and 330 day erefore, cor on of 8, 58 bases on 3 | e Annual working npany has ,000 30 days |
| | FY | Clinker | Cement (OPC) | Cement (PPC) | Cement (PSC) |
| | 2024-25 | 857850 | 107537.5 | 4013170 | 12196 |
| | 2023-24 | 829097 | 118541.6 | 398446.0 | 42743.7 |
| | 2022-23 | 857995 | 135365.1 | 397419.0 | 55987.0 |
| | 2021-22 | 770834 | 216855.7 | 327100.5 | 68854.40 |
| 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 | No further out by the Ministry of authority, and take information assess the | expansion e company f Environn The Comp prior app n will be s adequacy c | nce. or modifi without p nent & Fore any will in roval and hare to SE/ of conditior | cation will prior appro ests or their iform to th the same AC through | oval of the nominated e authority status or SEIAA to and to add |
| | Government or any other statutory body as framed/modified from time to time. 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. 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. 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 | Government or any other statutory body as framed/modified from time to time.State Gover framed/modiacordingThe Project Proponent shall not violate applicable provisions of any Acts, Rules Orders issued by the Hon'ble Supreme Court/High Courts/NGT, applicable to the project.Agreed fo The Project Proponent and judicial Governme Supreme Court/High Courts/NGT, applicable to the project.Agreed fo As per EC PC or OPC type shall exceed the limit of 2600 tons per day.Agreed fo As per EC ML/SEIA/ 24 th Noven production for both Comaintainin MTPA bot working. T as mentionFY 2024-25 2023-24 2022-23 2021-22FY 2024-25 2023-24 2022-23 2021-22No 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 informatio | Government or any other statutory body as framed/modified from time to time.State Government or framed/modified from accordingly.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 complian The Project Propon provisions of any Government and judi Supreme Court/High project. The PP provisions of any Government and judi Supreme Court/HighAt 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 complian As per EC Amendme ML/SEIAA/PROJEC 24 th November 2021) production of 8, 58,00 for both Cement and maintaining the Annu MTPA both Cement and main | Government or any other statutory body as framed/modified from time to time.State Government or any other s framed/modified from time to tim accordingly.The Project Proponent shall not violate applicable provisions of any Acts, Rules Orders issued by the Hon'ble Supreme Court/High Courts/NGT, applicable to the project.Agreed for compliance. The Project Proponent is not provisions of any Acts, Ru Government and judicial orders Supreme Court/High Courts/NG project. The PP has follor provisions of any Acts, Ru Government and judicial orders Supreme Court/High Courts/NG project. The PP has follor provisions of any Acts, Ru Government and judicial orders Supreme Court/High Courts/NG project. The PP has follor provisions of any Acts, Ru Government and judicial orders Supreme Court/High Courts/NG Project The PP has follor provisions of any Acts, Ru Government and judicial orders Supreme Court/High Courts/NG Project The PP has follor provisions of any Acts, Ru Government and judicial orders Supreme Court/High Courts/NG Project The PP has follor provisions of any Acts, Ru Government and judicial orders Supreme Court/High Courts/NG 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. Le ML/SEIAA/PROJECT-2/2007/2 24tim November 2021) company of production of \$, \$8,000 MTPA a for both Cement and Clinker, The maintaining the Annual production MTPA both Cement and Clinker, The maintaining the Annual production MTPA both Cement and Clinker (OPC) 2021-22 2021-22 357850 107337.5 2021-22 135365.1 2021-22 70834 216855.7No further expansion or modification in the plant shall be carried out without prior approval of the Ministry o | Government or any other statutory body as framed/modified from time to time.State Government or any other statutory body framed/modified from time to time and con accordingly.The Project Proponent shall not violate applicable provisions of any Acts, Rules Orders issued by the Hon'ble Supreme Court/High Courts/NGT, applicable to the project.Agreed for compliance. The Project Proponent is not violating provisions of any Acts, Rules Orde Government and judicial orders issued by the Hon'ble Supreme Court/High Courts/NGT, applicable to the project. The PP has following all provisions of any Acts, Rules Orde Government and judicial orders issued by to Supreme Court/High Courts/NGT.At no point of time, either the clinker 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, 24th November 2021) company can produce production of \$, \$8,000 MTPA and 330 day for both Cement and Clinker Therefore, cor maintaining the Annual production of \$, \$8 MTPA both Cement and Clinker bases on 3 working. The detail of Cement & Clinker P as mentioned below: -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 form those submitted to the Committee for clearance, a information will be share to SEAC throughNo further expansion or modification or alteration in the project proposal form those submitted to the Committee for clearance, a information will be share to SEAC through |



| | conditions imposed and to add additional environmental protection measures required, | | | |
|------|--|--|--|--|
| (iv) | if any. 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 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 | matter levels fro maintained with continuously trans ABB make SCAL control SO ₂ , NO _x effectively and at exceed the presc | smitted to SPCB/C DA based Interlock levels in case of fa no point of time ribed limit. Mon | s units are being limit. Data is PCB. ing is in system to ailure and working the emission wil |
| | unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved. | mentioned below: | Avg. of Oct'24 to | Permissible |
| | | | Mar'25 | Limits (mg/Nm3) |
| | | Pr. Crusher | 17 | 30 |
| | | Sec. Crusher | 19,33 | 30 |
| | | Coal mill 1 | 23.66 | 30 |
| | | Coal mill 2 | 21.17 | 30 |
| | | RABH-1 (PM) | 22 | 30 |
| | | RABH-1 (Sox) | 636.16 | |
| | | RABH-1 (Nox) RABH-2 (PM) | 312.16 | 600 |
| | | | 636 | |
| | | RABH-2 (Sox) | 299.66 | <u>1000</u> 600 |
| | | RABH-2 (Nox) ESP 1 | 299.00 | 30 |
| | | ESP 2 | 20.30 | 30 |
| | | Cement Mill No-1 | 24.50 | 30 |
| | | Cement Mill No-2 | 23.83 | 30 |
| | | Packing House-1 | 23.83 | 30 |
| • | | Packing House-1 | 23.17 | 30 |
| | | CPP (PM) | 43.50 | 50 |
| | | CPP (PM) CPP (Sox) | 43.50 | 600 |
| | | $\frac{CPP(SOX)}{CPP(Nox)}$ | 187.66 | 300 |
| | | CPP (Hg) | 0.008 | 0.03 |
| (v) | The project authorities should adhere to the | as Annexure-V Complied with. | | |
| | provisions stipulated in the fly ash notification of September, 1999 as amended in August, 2003 with regard to fly ash utilization. | Plant is completel and it is being cement mill hop consumption of th | on in our Captivo y collected by the loaded into tanke opers pneumatical ne flyash generated ng utilized in mak | ESP to its hopper, rs for feeding to ly. Hence 100% from the Captive |
| (vi) | The industry shall undertake the following waste minimization measures: Reuse of by-products from the process as raw materials or as raw material substitutes in other process. Use of closed pneumatic system for | bi-product of proc Closed pneumatic the fine material | onent is not gener ess. system is installe in the manufacture connected with | ed for transport or aring process. Al |
| ` | • Use of closed pneumatic system for THANGSK | 1-1 | | 16 |

| | 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 reused. | arresting equipment | nt's such as Bag Fi | ilters. |
|--------|--|---|--|--|
| (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. | Complied with . Monitoring of fug taken and the test team and also Proponent is sub- which is generate laboratory team. emissions in the w raw materials store | s were conducted by the third pa mitting monthly n d by the third par Results of monito vork zone environ | in-house with our rty. The Project report to MsPCB rty as well as our oring of Fugitive ment, product and |
| | | Location | Avg. of Oct'24 to Mar'25 | As per standard limit (µg/m³) |
| | | Lime stone Storage Area Coal Storage Area | 1420.16 | 2000 |
| | | Clinker Loading Area | 1220.50 | 5000 |
| | | Cement Loading Area | 2171.50 | 5000 |
| | | Coal Storage Area (CPP) | 1037.16 | 2000 |
| | | Fly Ash Silo Area (CPP) | 1102.83 | 2000 |
| | | Detailed report is a | attached as an Anr | nexure-VII |
| (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. | Complied with . The Project propo Environmental F RABH, Bag filters matter and to rep required spares pa functioning of the | Protection Equip s etcfor collection use the same in rts are also maintai | of dust/particulate our process. The |
| (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. | manufacturing pla | th FEB 2022. er No. MPCB/AT th FEB 2022 for 2 nt, valid up to 30 th | TH-27/2007/2021- 2600 TPD cement November, 2025. |
| | hazardous wastes. | ACT LID | | 17 |

I

5

| A separate Environmental Management Cell equipped with full-fledged laboratory acilities shall be set up to carry out the Environmental Management and Environmental Quality Monitoring functions. A state-of-the-art Chromium esting kit shall be maintained in the aboratory. | Complied with. Dedicated environmental Management Cell is functioning and Environmental quality functions like Ambient Air Quality Monitoring, Stack Monitoring 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 ou regularly. Testing report attached as Annexure-IX . Also detail of Environmental Management Cell and testing equipment's details are attached an Annexure XV . Complied with. The Sewage Treatment Plant (STP) has been installed and the capacity of the same is 100m ³ /Day, and the treated water being utilized for suppresses the fugitive dust of our internal roads. The Effluent Treatmen Plant (ETP) has been installed near Vehicle Work |
|--|--|
| he type specified by the project proponent hall be duly installed and manned full time by trained personnel appointed for the | The Sewage Treatment Plant (STP) has been installed and the capacity of the same is 100m ³ /Day, and the treated water being utilized for suppresses the fugitive dust of our internal roads. The Effluent Treatmen |
| | 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. |
| A six-monthly compliance status report hall be submitted to SEIAA/SEAC and Regional Office, Ministry of Environment & Forests, Govt. of India, Shillong apart rom 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, Shillongon the regular basis and posting the same data on the website https://topcem.in/ also. |
| mplementation of the project vis-à-vis nvironmental action plans shall be nonitored by the Regional Office, Ministry f Environment & Forests duly assisted by he SPCB. | Agreed for compliance. |
| hate tropic | all be submitted to SEIAA/SEAC and egional Office, Ministry of Environment Forests, Govt. of India, Shillong apart om posting the same on the website of the oject proponent. |

| 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, 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. | |

C. ADDITIONAL CONDITIONS

| (i) | The project proponent to create a good | Comp | lied with | |
|-----|---|----------|---------------------------------------|-----------------|
| | and successful plantation in the green belt | Compa | nny has established a Nursery i | in which |
| | area of approximately 18 hectares by | indiger | nous plant species like Michel | iaChanmpacca |
| | using indigenous plant species like | Castan | opsissp, Schimawallichi, Mes | uaferrea, |
| | MicheliaChanmpacca, Castanopsissp, | Artoca | rpus hetero-phyllahas planted | in different |
| | Schimawallichi, Mesuaferrea, Artocarpus | plots in | side the nursery. The planted | quantity of the |
| | hetero-phylla preceded by establishing | | nous plant species as mentione | |
| | well stocked nurseries of above species in | | | |
| | the different plots. The project proponent | SL. | Name of the Species | Quantity |
| | must accord importance & seriousness to | No. | | Planted |
| | undertake the plantation on mission mode. | 1 | MicheliaChanmpacca | 150 |
| | The plantation so create act as a model for | 2 | Mesuaferrea | 100 |
| | all the industrial units located within the | 3 | Artocarpus hetero-phylla | 2500 |
| | district. | 4 | Castanopsissp | 70 |
| | | 5 | Schimawallichi | 15 |
| | | · | · · · · · · · · · · · · · · · · · · · | <i>.</i> |
| | | | | |



MEGHALAYA CEMENTS LTD.

FIRE MOCKDRILL & EMERGENCY

FIRE ALARM TRAINING & SMOKE DETECTION SYSTEM

Date: 28.02.2025

Annexuor -

THEME: MOCKDRILL ON FIRE

CONDUCTED BY

: Safety dept & Glyptic

| VENUE Location | : Beside WHRS |
|-----------------------------|---|
| DATE | : 26.02.2025 |
| LINIE. | : 3:30 PM to 4:00 PM |
| NUMBER OF ATTENDED PERSONS | : 18 Persons. |
| NAME OF INFORMER | : Artist |
| ALARM RAISED BY | : Security person at CCR (after got the information) |
| EARTHQUAKE STARTED | : At around 2:29 PM |
| FIRE FIGHTING & RESCUE TEAM | REACHED : At around 2:31 PM |
| TOTAL LIVING PERSONS | : From affected area 04 Persons. |
| PERSONS EVACUATED TO | : Safe zone within 9 minutes. |
| LAST PERSON EVACUATED | : At around 2:39 AM |
| FALLING THREE PROCESS | : Head counting started during evacuation Simultaneously. |
| FO FAL RESCUER | : 04 Persons |
| DECLARATION | : After getting everyone in counting |
| | Extinguished the fire & mitigates the area. |

On 26.02.2025 at around 2:30 PM to 4:00 PM at WHRS "Mock Drill was conducted on Fire" total 18 Persons were involved from various departments.

Main Motto of the training programme was in case of any emergency how to take precautions and Fire breakout and how to fight and extinguish the fire and how to handle the situation and evacuate the persons from fire affected 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 yound senseless due to fire accidents then immediately how to rescue the victim (casualties) to Safe powerGSKA and to Occupational health centre also shown its procedure.

Mock Drill- Suddenly Alarm was raised by CCR security person after got the information from Artist. According to siren & information by Artist the Fire fighting team & Rescue team reached the spot within 2 minutes, workers were evacuated from Hot Zone to Cold zone i.e safe zone at assembling point, one person at around 2:39 PM he evacuated from there he was last men as per "information of our 1st responder team Fire caught inside Safety & Vigilance office, During rescue simultaneously head counting also continued at safe zone by helping of 'Falling Three' procedures and finally observed total casualties were removed from affected area.

Medical team also in ready position during emergency for help and further first-aid of causalities, after that 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 it is now 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.
- 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.

Following observations were noted during the Mock Drill:

- 1) All the workmen and staff reported to the Assembly point without any panic.
- 2) The evacuation was performed successfully well in time.
- 3) Communication was well enough to reach the Fire Point at the right time.
- 4) The fire-Fighting team used the right Extinguishing media for the Extinguishing purpose Water used with Foam)
- 5) ERT member done well and evacuated the Work Location on time.
- 6) Emergency Vehicle is available and reached at Site in time.
- 7) The work force remains calm, while the mock drill was in progress, and showed keen interest to get knowledge about the emergency among involved employees.
- 8) Workers were briefed about the emergency response procedure and fire Emergency.

Deficiency observes during Drill: - There is no deficiency observed during Mock drill.

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

Safety Officer



DGM Safety

Annexure -7

Annexire-I Meghalaya Cements Ltd. Vill: Thangskai, P.O.Lumshnong, East Jaintia Hills, Meghalaya-793210 Attendance Sheet for IMS/EnMS/External Agency Training Doc.No:MCL/ IMS & EnMS/MR/G10 Rev.No.:00 Date: : Fire alarm paining, smoke detection Training Details Moeu Doill on Fire. : Oxfernal Agency Duration 5 HEINE From: 26 02.2020 To: (a) Date/s From: 3'30 PM TO: 4:00 PM. (b) Time Names of Trainers 1. Rathin Jang-GLYPTIC 2. Attendance Record: Designation Department Signature Employee Name ŚI. Elechi Cest. (i)Deguk. b.R. branta Asst-many or Bipnoint Bhuttachering (pp Manne Htest . En Sin Inst Can Panas nam Sahu Mech Foreman Jo officer ircapanta Phukan Store Md. Salid Wel der 18D d Kasan Lombay Techicia n Sanjoy Gr Jich Ins-Sr-Engineer-Ins/ Abhay kumar Alla 9 83⁵³ Digant Chave Show Storial 0 ren N. Maniray And INST Sr. Enge 11. Asst Engineer gudrauid Maj , il ha Electrical .12 Mohit Singh Electorial: mont din n 13. lainter Prosenta en 14. THANGSKA and the second second

Anneurre -Meghalaya Cements Ltd. Vill: Thangskai, P.O.Lumshnong, East Jaintia Hills, Meghalaya-793210 Attendance Sheet for IMS/EnMS/External Agency Training Doc.No:MCL/ IMS & EnMS/MR/G10 Rev No.:00 Date alaven praining, smoke defection. Training Details Agency Duration HOW From: 26/02/2015 (a) Date/s To: From: 3:30.000 To: 4:0 pm. (b) Time .(Names of Trainers) 1 Rathin Jana-Glyptic 2. Attendance Record: s) Department Designation Fire Cost 14 Employee Name Signature Safety Strik Pritz asays't Nats 25 By. Manager 16. Cemere Saura Electrical Raunal Rajch Kan 12 So Sr: Sup 18: Ganih Quil? Sz ~ Gn J 1 λ. 12 CER

Annexure-I

OCCUPATIONAL HEALTH DISEASE & SAFETY ON SILICOSIS

Date: 17.01.2025

THEME: Taught about Prevention of Silicosis, Elimination of Dust, Control Airborne dust, Periodic Medical Health checkup etc.

: 3:30 PM To 5:00 PM

- *** TRAINER'**^S**NAME** : Prajjal Rajkumar (Safety Officer)
- VENUE : VTC Vocational Training Centre at HEMM.
- ✤ DATE : 15th Jan'2025
- ✤ TIME
- NUMBER OF PARTICIPANTS: 43 Persons were attended.

On 15/01/2025 at around 4:30 PM up to 5:00 PM at VTC HEMM we have conducted "SILICOSIS AWARENESS PROGRAMME" total 43 Persons were attended from various department workers, staff and officers. At the time of working in Mining area or in industry crusher area / packing area/Raw materials / mill area etc what precautions to be taken to avoid occupational disease hazards like "SILICOSIS" and its introduction etc.

SILICOSIS:

- Disease of lungs caused by breathing dust containing crystalline silica particles.
- Dust cause fibrosis (scar tissue) in the lungs which reduce the ability of the lung to extract oxygen from the air.
- ✓ Early stages of disease may go unnoticed, Continued exposure may result in-
 - Shortage of breath, possibly fever.
 - Occasionally blueing of skin at ear lobes and lips due to reduction in circulation.
 - More susceptible to infectious disease (particularly tuberculosis).
- ✓ Progression of disease leads to-
 - Fatigue, extreme shortness of breath.
 - Loss of appetite.
 - Pain in chest
 - Respiratory failure which may cause death.
- ✓ Diagnosis of Silicosis-
 - Normally detected in Periodic Medical Examination.
 - Lung functions are or mild Restrictive or mixed pattern, till late stage.
 - Chest X-ray shows typical fine granular opacities initially and large shadows only in case of PMF.
- ✓ Broad based actions required to be taken for control-
 - Early diagnosis of Chest ailments
 - Periodic Medical Examination of all employees once in every three years for employees above 45 years, once in five for employees below 45 years. (Mines Rule 29 B of 1955 & Recommendation of Tenth Safety Conference)
 - PME once in every year for employees of all categories above 60 years of age. (Cir Tech 7/2011).



- Annexure -I
- More emphasis to be given on Pulmonary Function Test & ILO Classification of Chest X-rays in Medical Surveillance of Mines employees as per the modified Statutory Form 'O' used for PME. (Cir Tech 5/2011)
- ✓ Specific actions taken by the Directorate on NHRC recommendations-
 - DG's Tech Circular been issued to all Managers, Agents and Owners of Mines in regards to Respairable Dust Measurements and Control to Prevent Pneumoconiosis in Mines which specified:
 - Exposure limits
 - Sampling and analysis of respirable dust.
 - Dust control Measures in Mines.
 - Occupational Health survey and Monitoring.
- ✓ WHY THE AWARENESS PROGRAMME? -
 - The persons working therein are liable to be affected by an incurable lung disease called silicosis.
 - Silicosis is caused by inhaling silica dust over a period of time.
 - Silica (sio2) dust is generated during mining, crushing and grinding of minerals such as sand stone, slate, granite, limestone and quartzite are and also during construction activity involving concrete and clay bricks, glass manufacturing and sand blasting.
 - The disease often has fatal consequence.
 - There is lack of awareness amongst the people in general about the cause, consequence and preventive measures of the diseases.
 - Minerals containing free silica are being mined in every state of our country.
 - These mines are largely in unorganized sectors.
 - Most of the mining/crushing/grinding is done without effective dust control.
 - No advanced technology is adopted.
 - Mine/plant operators are either unaware of their statutory obligations or deliberately ignore health care issues of their workers.
 - Medical examination of workers is not done periodically.
 - There is death of doctors trained in diagnosing silicosis/dust pneumoconiosis.
 - Very few states have constituted dust pneumoconiosis boards to check and monitor this disease.
 - Hence the disease go undetected and to the extent of fatality.
 - There is an urgent to focus on this issue.

HENCE THE AWARENESS PROGRAMME IS NECESSARY.

✓ SOCIO ECONOMIC ASPECTS-

- In unorganized sectors, proper record of employment is seldom maintained.
- As such, affected work --persons do not get medical aid, compensation etc.
- Due to reduced lung capacity and continued ailment the work-person is rendered jobless.
- Ultimately a family & the society suffer.
- The industry also suffers due to loss of skill.



Annexure - 7

✓ PREVENTION OF SILICOSIS

- Elimination of Dust, Dust suppression by water sprinkling and water spraying to be strictly ensured in Haul roads, man ways as well as working phases.
- Dry Drilling in mines to be completely stopped.
- Dust suppression by approved wetting agent.
- ✓ Control of dust during drilling- Dust control can be done by: -
 - By using sharp bits.
 - Wet drilling by using water.
 - By using dust extractors.
 - By providing air tight enclosed cabins on drills rig and mobile equipment.
 - By using personal protective equipments like respirators as the last resort.

✓ DUST CONTROL AT LOADING AND DUMPING POINTS:

- Jack hammers are most common in small and medium quarries/industry.
- Drill steels have central annuals for water flow to the bit.
- The cuttings flush out as sludge through the gap between wall of holes and steel.
- Apart from wet drilling use of dust mask is a must, as:
 Small amount of air leaks piston and collects dust which comes out with sludge.
 -collaring, drillers avoid to open water.

✓ DUST CONTROL AT LOADING AND DUMPING POINTS:

- Blasted muck prior to loading to be completely drenched with water. Spray loaded vehicles with water.
- No overloading of Vehicles to prevent spillage and crushing on haul road, adequate water spraying at all dumping points.
 - The height of fall at tipping or transfer points must be optimized.
 - Enclose the transfer point tightly to exhaust the dust -laden air.
 - Inactive top and slopes of all dumps to be planted.



DGM [SAFETY]



| 4 | | | | : | | |
|--------|----------------|---|---|---------------------------|---------------------------------------|-----------|
| | | Vill: Tha | Meghalaya (ngskai, P.O.Lumshnong, H | | | 210 |
| | | Attendar | Rev N | lo:MCL/ IMS & Er | Training MS/HR&A/TAF/0 | 0109 |
| > | | Training D Departmen Agency Date Time Name of Tr DR.AKASI | t : SAFETY & VIGILA : Internal : 15.01.2025 : 3.30 PM TO | NCE. KUMAR(DY.MAP | , | THANGSKA |
| Г Г | | | Attendan | <u>ce Record:</u> | ט | IN COLOR |
| | SI. No. | Emp Code | Employee Name | Department | Designation | Signature |
| | 1 ~ | 5436 | Satendry Singwill | Mines | Sr. Enginur | Suterdy |
| | 2 | 2599 | AShok. Ky. Pemols | memer | J.E | A |
| | 3 | 2032 | Kripa Shankar Kerma | Срр | Dy. Managers | C |
| ſ | 4 | 5929 | Abhingr Kumor | Mechanical seolin-pyro | Ast. Eng. | CTA-2 |
| | ["] 5 | 2866 | amit Rumer. | Dispatch | Sebryuz_ | Awithing. |
| | 6 | 6127 | Subhashi's saku | CPP | GET | Z |
| | 7 | 2433 | Pankaj Pandit | Dispatch | Assistant- | Fering |
| | 8 | -61 <i>3</i> 7 | TIKKY Thakeire | Logistic | Supernison | - Frig |
| | 9 | 6042 | Ajoy Sutradhan | | · · · · · · · · · · · · · · · · · · · | SP |
| | 10 | | Abdul Motleb | Logisties | Aptle C. | Stoleg - |
| | 11 | | mostafizeur Rahm | Logisties | G.R. Ent. | C.F. |
| ŀ | 12 | 2473 | | | | -Marter |

Annexure -T

| | SI. No. | Emp Code | Employee Name | Department | Designation | Signature |
|-----|------------|-------------|---------------------------|--------------------------|-----------------|--------------|
| | 13 | - | SIRAJULISLAM | Cartactor - G.R. End. | Loades | SIRAJUL ISIM |
| | 14 | - | Jormer Dle | -20- | Loader. | JamiltAl |
| | 15 | 29.56 | Rajest Kana | Safetyqvisi | Sr. Suparisa | -0, |
| | 16 | 2604 | Arcen for Swarquery | mines | Denil opt | altry |
| | 17 | 5879 | Rahul Kajla | Mechonical | Aust Enginer | -Jahlk |
| Ċ | 18 | 2898 | Rahul Kajla Suseet Kr. | Mechaning | ASSt. Er. | Sucet. |
| | 19 | 5992 | Raushan Kumar | MECH | In Engg | Ð |
| | 20 | 6154 | Prasenjit Haldes | Mechanical | GET | Aniji |
| | 21 | 5531 | Norhen Kr Sidle | Mines | Blostint heek | PHIR- |
| | 22 | .5.411 | Ashim lal Thelm | Despreh. | Superivision | Ab |
| | 23 | 2097 | L. Khomdon Singh. | Electrical | Senior Gulficia | A. |
| | 24 | 5862 | Ratul Bhuryan | Recfrical | S. Mi cian | Rober |
| Ö | 25 | 2693 | Upendso prasad | Ménes. | Drilloperstor | e fed |
| | 26 | 2607 | Balwantpal | Mines | Blaster | Beg |
| 3 - | 27 | 4867 | Fourced Lashary. | Electrical | Techenicny | Fary, |
| | 28 | 3163 | T3rijesh Kumitk | Mechan | Fidder | Ponjer- |
| | 29 | 2656 | Gerid Jin | Mènes | Rocaft | Ø. |
| | 30 | 5406 | Sondep Parl | IN CEM | Roc afr | 21414 |
| | 31 | 3170 | Borchardra Sonta | I LUANGSK | 121 | Bzingh |
| | 32 | 5755 | Salyam K. Markier | MERM | Angeneer. | Salys |
| | | | | Univert | Y | ¥ |

14.1

,

Annexure -I

1

, an

| | SI. No. | Emp Code | Employee Name | Department | Designation | Signature |
|-----------------|------------|-------------|---------------------------------|------------|-----------------|-----------|
| | 33 | 5964 | Shiven | mech | A·E | S.I |
| | 34 | 5897 | Ritesh, Kr. Single | Mech | Eugineer | Potelisin |
| | 35 | 5167 | Subhontan-Rajbonst | Ø. C | Chemist- | Burn |
| | 36 | 2074 | Homen Baishya | CPP | D.m. plant opt | Purly |
| | 37 | 2996 | Homen Baishya Ramlesh Sharma | CPP | 181-Class Lenne | |
| 0 | 38 | | About Suffor . | Q.C | 1.3 | April |
| | 39 | | Nidul Sinh | Q. L Jar | Retro My | Hinta |
| | 40 | | Rupar Bora | HRSA | Asst. officer | Pland |
| | 41 | 5844 | Plicmon Suting | HRS A | Asst. Officer | Juling |
| | 42 | | Tarun Kr. Das | HRS A. | Sweepoy | Torran Dy |
| | 43 | | Tiewlina Pyrtuh | Mines | JR. offreigh | AD |
| | . 44 | | | | | |
|) - [() - [| 45 | | | | · · | |



ž

ILANCE) HOD (S ė3

| - | | | | MEGHALAYA CEMENTS LIMITED | A CEMEN | TS LIMIT | ED | | | | 144 | and the second | |
|----|--------------------------------------|----------------|-------------|---|---------------------|--------------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------------------|----------------------|---------------------------------|-------------|
| | | | | LOCATION & DETAILS OF F | ILS OF FIF | IRE EXTINGUISHERS | GUISHER . | S | | | | | 1 |
| ŏ | LOCATION: T.G BUILDING | DNICDING | | | | | | | DOC NO: MCL/SA/FE/2014-15 | E/2014-15 | | | 1 |
| | | | | | REVIE | REVIEWED ON: 31.12.2024 | 31.12.2024 | | | | | | NICK STREET |
| NO | AREA NAME | DEPARTME NT | EXTING. SL. | LOCATION | CYLINDER TYPE | PRESSURE REGULATO R | TARE WEIGHT | CAPACITY/N ET WEIGHT | GROSS WEIGHT | PHYSICAL WEIGHT | DATE OF REFILLING | NEXT DUK DATE OF REFILING | REMARKS |
| - | CHP | CPP | MCL-47 | CIIP Building 2nd floor. | C02 | V/V | 19.5 Kg | 9 Kg | 28.5 Kg | 26.5 Kg | 01.03.2024 | 28.02.2025 | |
| 12 | Coal Yard | | MCL-148 | MCL-148 On the left side column. | CO2 | V/N | Gas Cartridge 400 gm | 9 Kg | Gas Cartridge 460 gm | Gas Cartridge 472 gm | 01.03.2024 | 28.02.2025 | |
| ŝ | Bad material & Charcoal Godown | СЪР | MCL-118 | Outside on the sheet near entrance door 2. | Mechanic al foam | V/N | Gas Cartridge 440 gm | 9 Lirs | Gas Cartridge 500 gm | Gas Cartridge 506 gm | 01.03.2024 | 28.02.2025 | |
| 4 | Compressor | | MCL-96 | Inside the compressor room. | C02 | N/A | 19.4 Kg | 9 Kg | 28.4 Kg | 31 Kg | 30.03.2024 | 29.03.2025 | |
| S | llouse | | MCL-88 | MCC Room for Comp/Ash handling/ESP. | C02 | N/A | 7.23 Kg | 2.27 Kg | 9.50 Kg | 9.30 Kg | 09.02.2024 | 08.02.2025 | |
| 9 | Turbine House ground floor | | MCL-85 | Gound floor near Fire Sand bucket stand. | C02 | N/A | 19.6 Kg | 9 Kg | 28.6 Kg | 31.5 Kg | 01.03.2024 | 28.02.2025 | - CENTER |
| 5 | Turbine House | | MCL-87 | On the wall beside entrance door. | CO2 | N/A | 6.35 Kg | 2.27 Kg | 8.62 Kg | 8.81 Kg | 09.02.2024 | 08.02.2025 | THANGSHAI |
| 8 | Ist floor in MCC nanel room | | MCL-99 | Inside the MCC Room door side of turbine. | C02 | N/A | 19.5 Kg | 9 Kg | 28.5 Kg | 30.4 Kg | 31.08.2024 | 30.08.20255 | |
| 6 | | | MCL-89 | On the side wall near Exit side. | C02 | N/A | 6.5 Kg | 2.27 Kg | 8.77 Kg | 8.15 Kg | 09.02.2024 | 08.02.2025 | |
| 10 | | 5 | MCL-81 | On the floor beside MOT | C02 | N/A | 19.3 Kg | 9 Kg | 28.3 Kg | 30 Kg | 09.02.2024 | 08.02.2025 | 110 |
| Ξ | Turbine House | CPP | MCL-245 | MCL-245 1st floor of T.G building near landing platform of | Mechanica I foam | N/A | Gas cartridge 1160 gm | 50 Ltrs | Gas cartridge 1460 gm | Gas cartridge 1581 <u>e</u> m | 05.12.2024 | 04.12.2025 | |
| 12 | | | MCL-83 | staircase. | C02 | N/A | 10 Kg | 4.5 Kg | 14.5 Kg | 15.8 Kg | 01.03.2024 | 28.02.2025 | |
| 13 | Turbine House | | MCL-21 | Near Tea stall. | C02 | N/A | 19.4 Kg | 9 Kg | 28.4 Kg | 28.4 Kg | 01.03.2024 | 28.02.2025 | |
| 14 | 2nd floor | | MCL-120 | Outside wall of CCR (Exit door side). | C02 | N/A | 5.1 Kg | 2.27 Kg | 7.37 Kg | 8.5 Kg | 10.02.2024 | 09.02.2025 | |
| 15 | CPP Office - | | MCL-95 | Office Gallery | C02 | N/A | 6.25 Kg | 2.27 Kg | 8.52 Kg | 7.8 Kg | 01.03.2024 | 28.02.2025 | - |

Annexuso - II

| | | | | | | ALC: Y | 11 11 | | | | | | Hnouse -11 | (=1 |
|---|-------|---|----------------|----------------|--|---------------|---------|----------|---------|---|-----------------------|------------|------------|-----|
| 1 | 18 F | DCS Control 16 Room- 2nd floor | | MCL-79 | MCL-79 Inside the CCR | C02 | N/A | 11.85 Kg | 4.5 Kg | 16.3 5 Kg | 17 Kg | 02.01.2624 | 01.01.2025 | |
| | 13 | D.M PLANT | | MCL-144 | 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 ABORATORY | _ | MCL- LMV-25 | MCL- Inside the CPP Laboratory, LMV-25 front side of partition wall. | ABC | 7 | N/A | l Kg | N/A | N/A | 30.08.2024 | 29.07.2025 | |
| | . 61 | WATER TREATMENT MCC PANEL ROOM | СРР | MCL-113 | MCL-113 Inside the panel room | C02 | N/A | 6.35 Kg | 2.27 Kg | 8.62 Kg | 8.76 Kg | 01.03.2024 | 28.02.2025 | |
| | 20 | INSIDE CHEMICAL STORAGE ROOM | | MCL-157 | MCL-157 Beside entrance door inside the room. | C02 | V/N | 20.65 Kg | 9 Kg | 29.65 Kg | 35 Kg | 30.03.2024 | 29.03.2025 | |
| | 21 | PUMP SHED | | MCL-20 | Entrance way of Pump shed. | C02 | V/N | 19.8 Kg | 9 Kg | 28.8 Kg | 32 Kg | 23.08.2024 | 22.08.2025 | |
| | * CO: | CHECKING CRITERIA * CO2 Extinguisher and o | A I CO2 Gas | cartridge w | CHECKING CRITERIA * CO2 Extinguisher and CO2 Gas cartridge which have weight less than 10% are to be rejected | 6 are to be 1 | eiected | | | Total Riser - 4 Nos Total Fire Extinguisher - 21 Nos | - 4 Nos Xtinguishe | r - 21 Nos | | |
| | * Ext | * Extinguisher CO2 - to be checked through gross weight | be check | ed through g | tross weight | | 5 | | | Total Fire Hose - 4 Nos | Iose - 4 Nos | | | |
| | * DC. | * DCP Extinguisher - only gas cartridge weight | nly gas car | tridge weigh | 14 | | | | | Total Hose Box- 4 Nos. | Box- 4 Nos. | | | |

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

* Mechanical Foam - only Gas cartridge weight

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

Total Emergency Exit - 3 Nos

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

Gi Buile

MONITORED BY

CENT 6 WECH D B) Ξ

APPROVED BY

LTD

| MECHALAYA CEMENTS LIMITED LOCATION & DETAILS OF FIRE EXTINCUISHERS LOCATION & DETAILS OF FIRE EXTINCUISHERS LOCATION = BOLLEN IDCATION & DETAILS OF FIRE EXTINCUISHERS STATE IDCATION = BOLLEN IDCATION & DETAILS OF FIRE EXTINCUISHERS IDCATION = BOLLEN IDCATION & DETAILS OF FIRE EXTINCUISHERS IDCATION = BEAR IS IDCATION = BOLLEN MCL-106 IA (ToOP RESULT VIEW IS IDCATION = BOLLEN IN INCA-91 Grant Incate Income Incate Income Income Income Income Income IN IS IDCATION IN INCA INTERNATION IN INCA INTERNATION INCOME IN IDCATED IN INCLUENT INCOME IN INVERTIGATION INCOME IN INVERTIGATION INCOME IN INCOME IN INCLUDED IN INCLUENCE INTERNATION INCLUENCE IN INCOME IN INVERTIGATION INCOME IN INVERTIGATION INCLUDED IN INCLUENCE INTERNATION INCLUENCE IN INFORMANCI IN INCLUENCE IN INCOME IN INCLUENCE IN INCOME I | Annexune -1 | R | REMARKS | | | | | | |
|---|-------------|--|----------------------------------|-----------------------|-----------------------------|-----------------------------|--------------------------------|----------------------------------|---|
| 5 AL DATE OF IT REFILITIN 23.02.2022 27.11.2022 27.11.2022 28.02.2022 28.02.2022 27.11.2022 27.11.2022 28.02.2022 29.02.02 20.02.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02 20.02.02.02 20.02.02 20.02.02.02 20.02.02.02 20.02.02 20.02.02.02 20.02.02.02 20.02.02.02 20.02.02 20.02.02.02 20.02.02.02.02.02.02 20.02.02.02.02.02.02.02.02.02.02.02.02.0 | Annex | S | NEXT DUE DATE OF REFILLING | 26.11.2025 | 27.02.2026 | 27.02.2026 | 26.11.2025 | 30.12.2026 | PPROVED B. |
| MECHÁLAYA CEMENTS LIMITED LOCATION & DETAILS OF FIRE EXTINGUISHERS DOC NO: MICLENDEL DOC NO: MICLENDEL DOC NO: MICLENDEL DOC NO: MICLENDEL IDCATION & DETAILS OF FIRE EXTINGUISHERS DOC NO: MICLENDEL IDCATION & DETAILS OF FIRE EXTINGUISHERS DOC NO: MICLENDEL IDCATION & DETAILS OF FIRE EXTINGUISHERS IDC NO: MICLENDEL IDC NO: MICLENDEL IDC NO: MICLENDEL INTERDEL IDOC NO: JILLER IDOC NO: JILLER < | | | DATE OF REFILLING | 27.11.2024 | 28.02.2025 | 28.02.2025 | 27.11.2024 | 01.01.2025 | S |
| MECHÁLAYA CEMENTS LIMITED LOCATION & DETAILS OF FIRE EXTINCUISHERS DOC NO. M.C.ISAFE LOCATION : BOLLAN DOC NO. 3.10.2.005 DOC NO. M.C.ISAFE DEAME TAINE DEAME NAME NAME NAME NAME NAME NAME NAME | | E/2014-15 | PHYSICAL WEIGHT | 32 Kg | | N/A | N/A | N/A | Sency exit - Extinguisher Hose - 8 Nos Box- 7 Nos line - 7 Nos ondition. |
| MECHÁLAYA CEMENTS LIMITED LOCATION & DETAILS OF FIRE EXTINGUISHERS LOCATION & DETAILS OF FIRE EXTINGUISHERS DOC NOI LOCATION - BOILER HOUSE - CPP REVIEWED ON - 31.03.2025 DOC NOI DOC NOI DOC NOI DOC NOI REVIEWED ON - 31.03.2025 REVIEWED ON - | | MCL/SA/F) | | 28.4 Kg | 16.18 Kg | N/A | V/V | N/A | Total Emer Total Fire I Total Fire I Total Hose Tota Riser k V g cylinder c |
| MEGHALAYA CEMENTS LIMITED LOCATION & DETAILS OF FIRE EXTINGUISHER: LOCATION: - BOILER HOUSE - CPP LOCATION: - BOILER HOUSE - CPP REVIEWED ON - 31.03.2005 Sin and the column of the column colspan="2">COLOATION - 31.03.2005 Sin area present EXTINGU 0 NAME MCL-91 KerTUND FRESURE FARE 1 BOILER MCL-91 Ground floor on the column CO2 N/A 11.68 Kg 2 FLOOR MCL-01 Ist floor beside of staircase. ABC V N/A 3 BOILER MCL-106 Ist floor beside of staircase. ABC V N/A 3 BOILER MCL-106 Honse. ABC V N/A 5 BOILER MCL-106 Honse. ABC V N/A 6ROUND MCL-106 House. ABC V N/A 5 Boiler MCL-106 House. ABC V N/A 6ROUND MCL-106 House. ABC V N/A 7 MCL-106 House. ABC V N/A 8 Boiler MCL-106 House. ABC V N/A 6 MOCL-106 | | S DOC NO: 1 | CAPACITY NET WEIGHT | 9 Kg | 4.5 Kg | 9 Ltr | 5 Kg | ó Kg | e [if ok Mar] |
| MEGHÁLAYA CEMENTS LIMITEJ LOCATION & DETAILS OF FIRE EXTING LOCATION & DETAILS OF FIRE EXTING LOCATION & DETAILS OF FIRE EXTING INTER LOCATION & DETAILS OF FIRE EXTING LOCATION & DETAILS OF FIRE EXTING INTER NONLER DETAILS NOLER HOUSE - CPP REVIEWED ON - 31.0 Interview of the provident of the pro | | D JISHER 3.2025 | | 19.4 Kg | 11.68 Kg | N/A | N/A | N/A | green zone green zone r body . |
| MEGHÁLAYA CEMENTS LOCATION & DETAILS OF FIRE LOCATION & DETAILS OF FIRE SIN REVIEWE SIN REXTINCU LOCATION REVIEWE SIN REA DEPAR EXTINCU CVLIND 0 NAME TMENT MCL-97 Near the FD-Fan (HT). CO2 1 BOILER MCL-91 Ground floor on the column. CO2 2 FLOOR MCL-105 Ist floor beside staircase. ABC 3 BOILER MCL-106 Ist floor of Boiler ABC 4 FLOOR MCL-106 Ist floor of Boiler ABC 5 HOUSE IST MCL-106 Ist floor of Boiler ABC 6 HOUSE OR MCL-104 At 2nd floor of Boiler ABC 6 HOUSE OR MCL-106 Ist floor of Boiler ABC 6 HOUSE OR MCL-106 Ist floor of Boiler ABC 7 HOUSE OR MCL-106 Ist floor of Boiler ABC 6 HOUSE OR MCL-106 Ist floor of Boiler ABC< | 4 | LIMITEI EXTINGI D ON - 31.0 | PRESSURE REGULAT OR | N/A | N/A | N/A | Λ | ~ | to be rejecter hould within ry to send re extinguishe HECKED B |
| MEGHÁLAYA CE LOCATION: - BOILER HOUSE - CP MEGHÁLAYA CE LOCATION: - BOILER HOUSE - CP R Incomposition SI.N AREA DEPAR EXTINCU LOCATION BOILER R 1 BOILER MCL-97 Near the FD-Fau (HT). R R 2 ROUND MCL-91 Ground floor on the column. R 3 BOILER MCL-05 Ist floor beside staircase. 4 FLOOR MCL-106 Ist floor of Boiler 5 HOUSE IST MCL-106 Ist floor of Boiler 6 Boiler MCL-106 Ist floor of Boiler 6 HOUSE IST MCL-106 Ist floor of Boiler 6 HOUSE IST MCL-106 Ist floor of Boiler 7 Boiler MCL-106 Ist floor of Boiler 8 Boiler MCL-106 Ist floor of Boiler 7 Boiler MCL-106 Ist floor of Boiler 8 Boiler MCL-106 Ist floor of Boiler 9 HOUSE IST MCL-106 At 2nd flo | | MENTS OF FIRE EVIEWEI | CYLIND ER TYPE | C02 | C02 | AFFF Foam | ABC | ABC | an 10% arc or needle s en necessa ondition of CJ |
| LOCATION: - BOILER HOUSE - CI LOCATION: - BOILER HOUSE - CI SI.N AREA DEPAR EXTINGU O NAME TMENT NO D NAME TMENT NO D NAME MENT NO D NAME MENT NO D NAME MENT NO D NOCL-91 HOUSE IST CPP MCL-91 HOUSE IST CPP MCL-91 HOUSE IST CPP MCL-91 HOUSE IST CPP MCL-91 ACL-104 FLOOR NO HOUSE IST CPP MCL-91 MCL-104 FLOOR NO FLOOR NO D NOCL-91 MCL-104 FLOOR NO FLOOR NO FLOOR NO P HOUSE CPP MCL-91 MCL-104 FLOOR NO FLOOR NO | | MEGHÁLAYA CE CATION & DETAILS O PP R | LOCATION | Ncar the FD-Fan (HT). | Ground floor on the column. | lst floor beside staircase. | lst floor beisde of staircase. | At 2nd floor of Boiler House. | lge which have weight less th ugh gross weight weight weight sure regulator, in the regulat sure low / Body corrossion th c years / if necessary as per c |
| LOCATION: - BOILER H LOCATION: - BOILER H SI.N AREA DEPAR 0 NAME TMENT 2 FLOOR 3 BOILER CPP 4 FLOOR BOILER CPP Boilcr Boilcr Boilcr CHECKING CRITERIA * CDD BOILER COP co co co floor * Extinguisher col co | | LOC | EXTINGU ISHER SL. NO | MCL-97 | MCL-91 | MCL-05 | MCL-106 | MCL-104 | 2 Gas cartrid liccked thro as cartridge by only pre ampty / Pres one every fiv |
| LOCATION: - F LOCATION: - F SI.N AREA O NAME BOILER HOUSE IST HOUSE IST FLOOR Boiler 5 HOUSE IST FLOOR Boiler 5 HOUSE IST FLOOR Boiler Boiler Boiler Boiler Boiler Stinguisher CC * DCP Extinguish * ABC Extinguish * Mechanical Foal * ABC Extinguish * If any Extinguish * If any Extinguish * Montal Foal * MONIT | | OILER H | DEPAR TMENT | | | | | · · · · · · · · | TERIA cr and CO. 22 - to be c m - only g m - only g m - only G m - check her found ϵ t will be dc ORED BY |
| LOC LOC LOC LOC LOC LOC LOC LOC | | ATION: - B | AREA NAME | BOILER HOUSE | GROUND FLOOR | BOILER | FLOOR | Boilcr House 2nd floor | CKING CRT 2 Extinguish inguisher CC P Extinguish chanical Foa c Extinguish ny Extinguish iny Extinguish frostatic Test frostatic Test MONIT |
| | | LOC | SI.N O | Ľ | 2 | 1 | | Ś | CHU CHU CHU CHU CHU CHU CHU CHU |

, in

| | INSIDE PLANT PREMISES IMPLEMENTEL | PLEMEN | ` | RANT/R | ISER A | ND FIRE H | HYDRANT/RISER AND FIRE HOSE BOX LOCATION DETAILS | ETAILS |
|----------|---|----------|-----------|----------|--------|---------------|--|---------|
| No No | | | | | | | | |
| | | | | | | | Date: 31.03.2025 | -2025 |
| 0,- | Location of fire Hydrant / Riser & Fire | Quantity | Quantity | Box type | SI. No | Hydrant / | Key Location of Hose box | Remarks |
| | Hose Box. | of Hose | of Nozzle | | of Box | Riser | | |
| • | In-front of Coal shed (CPP) beside entrance | 01 | 01 | Single | 18 | Hydrant -06 | | |
| | way. | | | | | | | |
| ~ | In-front of coal shed (CPP) on the drain middle | 10 | 10 | Single | 61 | Hydrant - 05 | | |
| 5 | In-front of coal shed just beside of coal | 0] | 01 | Single | 20 | Hydrant -04 | | |
| | feeding hopper. | | | | | | | |
| 4 | In-front of Compressor shed. | 10 | 10 | Single | 21 | Hydrant -07 | | |
| 5 | At CHP (CPP) ground floor bottom of | 10 | Required | Single | 15 | Riser No-12 | | |
| | returning belt BC-2. | | | | | | | |
| 9 | At CHP building of CPP ground floor fitted on the column | 01 | Required | Single | 16 | Riser No-13 | Kev kent with CPP - CCR | |
| ~ | At CHP building (CPP) 1st floor beside right | 02 | Required | Double | 17 | Riser No-14 | - | |
| | side corner column. | | - | | | | | |
| x | Bottom of ESP (CPP) on the column. | 10 | 01 | Single | 22 | Riser No -15 | | |
| 6 | At bottom of APH (CPP) ground floor back | 01 | 01 | Single | 23 | Riser No - 16 | | |
| | side fitted on the column. | | | | | | | |
| 10 | At hottom of Boiler house (CPP) ground floor | 10 | 01 | Single | 4 | Riser No-17 | (| |
| | on the column. | | | | | | AL CEAL | |
| | Boiler house (CPP) 1 ^{**} floor beside furnace. | 10 | 10 | Single | 25 | Riser No -18 | Le Co | |
| 12 | Boiler House (CPP) 1st floor beside staircase. | 02 | 01 | Double | 26 | Riscr No - 19 | | |
| 5 1 | Boiler House (CPP) 2nd floor besides landing | 01 | 01 | Single | 27 | Riser No - 20 | L (INA VOURAN) | |
| _ | platform. | | | | | | 1100 | |
| 14 | Boiler House (CPP) 3 rd floor besides landing | 10 | 01 | Single | 28 | Riser No - 21 | | |
| 15 | T.G building ground floor front side fitted on | 01 | 01 | Single | 29 | Riser No - 22 | | |
| | the column. | | | | - | | | |
| 16 | T. G Building ground floor beside BFP pump. | 02 | Required | Double | 30 | Riser No - 23 | | |

MEGHALAYA CEMENTS LIMITED THANGSKAI

Annexure -II

A

æ

| (=1 | r | |
|--------------|--|--|
| Annexuse -11 | | |
| - | | Ney Kepi will cet - UCK |
| | Riser No - 24 | Riser No - 25 |
| | 31 | 32 |
| | Single | Double |
| | 10 | . 10 |
| ٩ | 10 | 02 |
| | 17 T. G building ground floor outside near Emergency exit. | 18 T.G building 1 st floor. |
| | 17 | 18 |
| | | |

Note: 1) Hydrant No. - 01 at store connected from water storage syntax (5 KL) which kept beside store Pantry room.

2) Except Store remain all 'Hydrant and Riser' connected from CPP Cap. 16000 M3 & WHRS Raw water storage tank Cap. 977M³. 3) All Boxes additional 'Key' for Emergency kept with Safety office.





Annexure - III



MEGHALAYA CEMENTS LIMITED CIN- U26942ML2003PLC007125



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

Date: 08.06.2024

To, The Regional Directore

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 on13th 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 thanks 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,

ForMeghalaya Cements Limited



150 9001 2015 \$ 11001 2015

50001:2011Certilled Compa

Mega Plaza, 4th Floor,Christian Basti G S. Road, Guwahati - 781 005 Tel, 10361 2345421/22/23, Fax: 0361 2345419 E-mail: guwahati@toocem.in Web: www.topcem.in

HELPLINE NO : 18001233666

Kotkata : BE-77, Salt Lake City Sector-1, Kolkata - 70C 064 Tel. : 033 2334 0666 / 0004 Fax: 033 2334 0505 E-mail : kolkata@topcem.in Covernment of Indie Covernment of Indie Covernment of Indie Covernment of Indie Covernment Cagion Statistic Capel (SBT)

Registered Office : Vidage: Thangskai, P.O. & P.S. Lunishneng Disbict : East Janica Hills, Meghalaya, P.N. 793210 Tel.: • • 91 69742 17765 / 7655 58459 / 94625 09599 E-mail : neghalaya@sopcem m

Action Taken Report

Annexuse - III

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 m3 For Residential Colony building= 4777.194 *6.683*0.80= 25540.79 m3 O1 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. |
Anneque - III

6

How many recharge structures you have constructed to recharge what volume of water?

05 no, of recharge structures with total 1863.49 m³ capacity have been constructed to recharge the water. All are operational. Collected rain water is being used in process.













Э

FOR OFFICIAL USE ONLY सरकारी उपयोग के लिए केवल

.

Technical series

Annexure - 11



Central Ground Water Board केंद्रीयभूमिजलबोर्ड Ministry Of Water Resources, River Development & Ganga Rejuvenation जलसंसाधन, नदीविकासऔरगंगासंरक्षणमंत्रालय GOVERNMENT OF INDIA भारतसरकार

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

Annexure - III

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 theRainwater 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 inareason25th April,2023.

| Inspection Team | :Ms.Dakshina | Rabha, Scientist-D(HG) |
|------------------|----------------------|--------------------------|
| | Ms. Anenuo | Pienyu, Scientist-C (HG) |
| Location details | :Meghalaya C | ements (Topcem Cement). |
| | Village | -Thangskai |
| | District | -EastJaintiaHills |
| | 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.

1

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

THANGSKAI

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.

| 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 |

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

(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 waterwailable and storage tank constructed of each sectors are as follows:



Annexure - III

| Sector | Roof | Roof area | volume of rain | Storage tank | Capacity of storage |
|--------------------------------|-----------|-----------|----------------|--------------|---------------------|
| i | materials | (Sq.m) | water (m3) | constructed | tanks (m3) |
| 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



Anneause - III

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.



| 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 |

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

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 (m3) |
|--------------------------------|-------------------|-----------------------|------------------|------------------------------|
| 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 | - | tum of available (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

Annexuse-III

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 **sendstone** 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.

CONCLUSIONANDRECOMMENDATION:

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 $63m^3$ 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.
- 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.



Annexuor - II.



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

No AID(J)223/2007-2008/

Dated Josvai, 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 – Umparti 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 CHRTIFICATE to the Meghalaya Cement Limited for the drawal of water from Chynryntong – Umparti 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-Umparti River as and when required.
- The Company is to draw only the required quantity of water of 0.04 Cumees and extra requirement should be obtained prior permission from the undersigned before drawal of the water form Chynryntong – Umparti River.
- 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

Annexuse - 10

- 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.

Or.

Мелю, No. AID(J)223/2007-2008/ /1145 €, Сору: Dated Jowai, the 24^{dt} March 2008.

- 1 The Deputy Commissioner, Jaintia Hills District, Jowai for favour of information.
- 2. The Chief Engineer(Irri), Meghalaya, Shillong for favour of information as per
- technical approval vide letter no Agri/IRR1-1308/2007-02 /243 Art Stalling 20⁴ Maria 2023
 The Superintending Engineer(I) Meghalaya, Shiftong Circle for favour of information.
- 4. Shri. Gopal Sharma, Authorised Signatory of Meghalaya Cement Ltd. Thanyskai for favour of information.

Shrik.D. Pliawa 20112 100

Executive Engineer(Irrigation) Jaintia Hills Division, Jowai





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 Shir Gopa Sharma. Authorized Signatory of MEGHALAYA CEMENTS LIMITED to: drawing water from Wah Snyrtong River to use of their Plant as well as for Power Plant. This certificate is instead on the basis of the NOCs issued by the District Council Headman Myrkos/ Dollor of Ectiva

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

Dated Jowar the 21st November 2007

Copy to

- 1 The Superintendent of Police, Jamua Hills District Jowar for information
- The Secretary, Jaintia Hills Autonomous District Council Joural for unformation and necessary action.
- Shri Gopal Sharma, Authorized Signatory Meghalaya Cements Limited for information and necessary action.

Deputy Commissioner Jaintia Hills District, Jowan



Annexuse - IV

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.

771 Marto Datio Elaks Narpult

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

Shvi Manbha Kyndoh Dolloi of Narpuh Elaka



Annexuse - W

OFFICE OF THE FATTEL ALLS ADEONOMOUS DESERTOR COUNCIL. JOWAL.

ΤΦ.

Subbash t.Y.

MAS Megle laya Cement Manited, Thangbkai,Jaintia Hills District.

Reference :- Your letter 41.03.05.07.

With reference to your patition above, I ar directed to inform you that this Office have no -objection for your drawl of water from with Chynryntong to the Gement Plant site on the following conditions.

1. This N.O.S is wall? for Brayl of water may.

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 reclain out of its own cost any instan 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 erops, orchards etc. shall not be effected due to the drawl of water.

5. Non observance and violation of the above conditions this Ma-objection certificate is liable to be cancelled.

> Dy.Chief Forest Officer, Jainti, Hills Autonomous District Council, J gwni.



Annexure - V

.

I

MEGHALAYA CEMENTS LIMITED

| Chimne | èy | | | Su | spende | ed Part | iculate | Matter (PM | $):mg/Nm^3$ | |
|-----------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|
| | | Oct 2024 | Nov 2024 | Dec 2024 | Jan 2025 | Feb 2025 | Mar 2025 | Avg. | MoEF notification G.S,R 826(E), dated 16.11.2009, Concentration not to exceed, | |
| Pr. Crusł | ıer | 17 | 16 | 17 | 14 | 19 | 19 | 17 | 30 | |
| Sec. Crusher | | 19 | 20 | 21 | 13 | 21 | 22 | 19.33 | 30 | |
| Coal mil | 1 | 23 | 24 | 22 | 20 | 27 | 26 | 23.66 | 30 | |
| Coal mil | 2 | 21 | 22 | 13 | 23 | 24 | 24 | 21.17 | 30 | |
| | PM | 24 | 21 | 23 | 19 | 21 | 24 | 22 | 30 | |
| RABH 1 | SO ₂ | 659 | 611 | 601 | 638 | 641 | 667 | 63 6.16 | 1000 (Based on pyritic sulphur presence in limestone) | |
| | NOx | 289 | 205 | 334 | 355 | 331 | 362 | 312.16 | 600 | |
| | РМ | 22 | 22 | 25 | 17 | 23 | 23 | 22 | 30 | |
| RABH 2 | SO ₂ | 661 | 574 | 6 32 | 655 | 625 | 669 | 636 | 1000 (Based on pyritic sulphur presence in limestone) | |
| | NOx | 288 | 214 | 272 | 347 | 318 | 359 | 299.66 | 600 | |
| ESP 1 | | 27 | 26 | 27 | 24 | 27 | 28 | 26.50 | 30 | |
| ESP 2 | | 29 | 27 | 26 | 27 | 27 | 26 | 27 | 30 | |
| Cement Mill | No-1 | 23 | 25 | 24 | 27 | 24 | 24 | 24.50 | 30 | |
| Cement Mill | No-2 | 25 | 23 | 26 | 25 | 22 | 22 | 23.83 | 30 | |
| Packing Ho | use-1 | 24 | 23 | 26 | 23 | 26 | 23 | 24.17 | 30 | |
| Packing Ho | use-2 | 26 | 25 | 24 | 21 | 23 | 20 | 23.17 | 30 | |
| Prepared Hwy Abhigyan | Ĩ | | ALEGHA | | CEME | 1 | | Checked & Verified by Uliworff Ujjwal Anurag | | |

Six Monthly Reports: Stack Emission Report, 2024-2025

Regd. Office and Works: Village Thangskai, P.O. Lumshnong, Distlaintia Hills, Meghalaya Pin-793200 Ph.:03655-278324/363/364 Corporate Office: BE-77, Salt Lake City, Sector – 1, Kolkata – 700 064, Ph.:033 23340666/0004, Fax: 03655 278327

.

Annexuse-V

Checked & Verified by Uliwer Ujjwal Anurag

| MEGHALAYA | CEMENTS LIMITED | |
|-----------|------------------------|--|
|-----------|------------------------|--|

| | | Ambient Air Quality (AAQ): µg/m ³ | | | | | | | | | | |
|----------------------|-----------------|--|-------------|-------------|-------------|-------------|-------------|-------|--|--|--|--|
| Locati | ion | Oct 2024 | Nov 2024 | Dec 2024 | Jan 2025 | Feb 2025 | Mar 2025 | Avg. | MoEF notification G.S.R 826(E), dated 16.11.2009 Concentration not to exceed, | | | |
| | PM 10 | 63.2 | 64.3 | 66.1 | 59.2 | 84.6 | 88.5 | 70.98 | 100 | | | |
| N COD | PM 2.5 | 36.2 | 37.8 | 39.5 | 34.7 | 50.6 | 46.1 | 40.87 | 60 | | | |
| Near CCR Building | SO ₂ | 5.3 | 5.5 | 5.7 | 6.5 | 8.7 | 8.9 | 6.76 | 80 | | | |
| | NOx | 6.5 | 6.9 | 7.1 | 7.1 | 9.8 | 9.8 | 7.86 | 80 | | | |
| | PM 10 | 57.6 | 53.7 | 66.9 | 58.2 | 80.2 | 86.30 | 67.15 | 100 | | | |
| Guest House | PM 2.5 | 27.6 | 29.8 | 33.6 | 30.6 | 49.6 | 48.21 | 36.56 | 60 | | | |
| | SO ₂ | 6.2 | 7.2 | 6.6 | 6.2 | 7.5 | 10.28 | 7.33 | 80 | | | |
| | NOx | 7.6 | 5.3 | 7.1 | 6.4 | 7.9 | 17.52 | 8.63 | 80 | | | |
| | PM 10 | 72.6 | 74.7 | 77.3 | 62.2 | 87.3 | 88.5 | 77.10 | 100 | | | |
| | PM 2.5 | 41.3 | 42.5 | 44.7 | 34.6 | 53.4 | 46.1 | 43.76 | 60 | | | |
| Crusher | SO ₂ | 7.5 | 5.5 | 7.8 | 8.2 | 14.5 | 8.9 | 8.73 | 80 | | | |
| •. | NOx | 8.2 | 6.9 | 8.6 | 9.1 | 11.8 | 9.8 | 9.06 | 80 | | | |
| | PM 10 | 43.8 | 52.9 | 47.4 | 53.7 | 63.8 | 91.3 | 58.82 | 100 | | | |
| DG House | PM 2.5 | 23.1 | 32.4 | 28.9 | 30.4 | 32.4 | 52.8 | 33.33 | 60 | | | |
| (Downwind direction) | SO ₂ | 5.8 | 7.8 | 5.3 | 6.9 | 6.3 | 13.9 | 7.67 | 80 | | | |
| | NOx | 7.2 | 8.1 | 6.2 | 8.3 | 7.6 | 16.4 | 8.97 | 80 | | | |

Regd. Office and Works: Village Thangskai, P.O. Lumshnon, Distlaintia Hills, Meghalaya Pin-793200 Ph.:03655-278324/363/364 Corporate Office: BE-77, Salt Lake City, Sector – 1, Kolkata – 700 064, Ph.:038 28340666/0004, Fax: 03655 278327

D

EGHA

AbingyanGautam

MEGHALAYA CEMENTS LIMITED

| | | | | | Noise Inte | nsity: dB | (A) Leq | | |
|----------------------------|---------|-------------|-------------|-------------|--------------------------|-------------|-------------|------------------|--|
| Locat | ion | Oct 2024 | | | | 1 | | ar 25 Avg. | Noise Levelnot to exceed in dB (A) Leq |
| Captive | Day | 68.5 | 68.5 | 5 69.1 | 7 64.1 | 69. | 1 40 | 63.33 | 75 |
| Power Plant | Night | 64.8 | 64.8 | 3 66.3 | 3 61.2 | 64. | 4 35 | 5.3 59.46 | 70 |
| DG | Day | 41.7 | 41.7 | 7 43.0 | 5 70.2 | 42. | 9 69 | 51.60 | 75 |
| House | Night | 36.6 | 36.0 | 5 38.8 | 3 66.8 | 39. | 2 64 | 47.08 | 70 |
| Guest | Day | 40.7 | 40.7 | 7 42.9 | 9 42.9 | 45. | 3 42 | 42.55 | 75 |
| House Nigh | | 42.8 | 42.8 | 3 40.9 | 37.3 | 40. | 4 37 | 40.33 | 70 |
| Crusher | Day | 70.9 | 70.9 | 71.0 | 67.9 | 72. | 4 72 | 2.4 71.01 | 75 |
| | Night | 65.9 | 65.9 | 9 66.4 | 4 63.4 | 39. | 2 67 | 7.6 61.40 | 70 |
| NOTE : Da | ay Time | e (6:00A) | v1 to 9:00] | | nt Time (9: r Consump | | | | |
| Locatio | n | Oct 2024 | Nov 2024 | Dec 2024 | Jan 2025 | Feb 2025 | Mar 2025 | Avg. (m³/Day) | Water Consumpti on not exceed |
| Domestic (m ³) | | 5141 | 6092 | 6123 | 5095 | 6092 | 4498 | 181.54 | |

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

Industrial **Cement Plant** 12521 15582 16464 13601 15582 12071 471.54 (m³) IndustrialWHR 1236 S (m³) m³/Day 256.19 8658 7505 7846 7881 7505 7232 CF

Regd. Office and Works: Village Thangskai, P.O. Lumshnong, Distlandia Hills, Meghalaya Pin-793200 Ph.:03655-278324/363/364 Corporate Office: BE-77, Salt Lake City, Sector – 1, Kolkata – 700 064, Ph.:033 23340666/0004, Fax: 03655 278327

~



I

MEGHALAYA CEMENTS LIMITED

| | | | lonthly Rep | | | | | | /A.T3 |
|--------|-------------------|-------------|-------------|-------------|-------------|-------------|------------------------------|---------|--|
| | | Susp | ended Part | iculate Ma | tter (PM) | & Gase | ous Emis | sion:mg | <u>/Nm²</u> |
| Chimn | | Oct 2024 | Nov 2024 | Dec 2024 | Jan 2025 | Feb 2025 | Ma1 2025 | | Concentration not to exceed, in mg/Nm ³ |
| : CP | | 44 | 42 | 44 | 44 | 44 | 43 | 43.5 | |
| | SO ₂ | 408 | 416 | 422 | 320 | 546 | 409 | 420.1 | 16 600 |
| | NOx | 178 | 194 | 187 | 164 | 209 | 194 | 187.6 | 6 300 |
| | Hg | - | - | - | 0.015 | <0.001 | l _ | 0.00 | 0.03 |
| | | | <u></u> | Ambien | t Air Qua | lity (AA | Q):µg/m | 3 | |
| Locati | on: CPP | Oct 2024 | Nov 2024 | Dec 2024 | Jan 2025 | Feb 2025 | Mar 2025 | Avg. | MoEF notification G.S,R 826(E), dated 16.11.2009, Concentration not to exceed, |
| | PM 10 | 76.7 | 78.1 | 79.6 | 55.1 | 52.9 | 91.3 | 72.28 | 100 |
| | PM 2.5 | 44.8 | 45.9 | 48.2 | 26.2 | 34.7 | 52.8 | 42.10 | 60 |
| S⇔E | SO ₂ | 8.6 | 8.8 | 8.9 | 8.3 | 8.8 | 13.9 | 9.55 | 80 |
| | NOx · | 9.7 | 9.9 | 10.2 | 9.6 | 7.2 | 16.4 | 10.50 | 80 |
| | PM 10 | 57.8 | 65.8 | 58.3 | 67.8 | 45.9 | 80.1 | 62.61 | 100 |
| S↔W | PM 2.5 | 35.1 | 31.56 | 33.58 | 36.9 | 31.2 | 49.51 | 36.30 | 60 |
| S⇔w | SO ₂ | 6.3 | 7.8 | 6.8 | 8.7 | 6.2 | 9.45 | 7.54 | 80 |
| | NOx | 7.5 | 8.6 | 7.3 | 10.2 | 5.9 | 5.82 | 7.55 | 80 |
| | PM 10 | 61.4 | 62.3 | 66.9 | 59.3 | 53.2 | 75.69 | 63.13 | 100 |
| N⇔E | PM _{2.5} | 33.6 | 29.8 | 37.9 | 29.8 | 29.2 | 41.02 | 33.55 | 60 |
| IA⇔IC | SO ₂ | 7.9 | 8.3 | 8.3 | 7.3 | 9.7 | 11.58 | 8.84 | 80 |
| | NOx | 8.3 | 9.4 | 9.2 | 6.8 | 8.4 | 7.85 | 8.32 | 80 |
| | Prepar | | (| JANA CEN | TEN | | Cked & V Ulwa Ujjwal A | 44 | by |

Regd. Office and Works: Village Thangskai, P.O. Lumsimong, DistJaintia Hills, Vieghalaya Pin-793200 Ph.:03655-278324/363/364 Corporate Office: BE-77, Salt Lake City, Sector – 1, Kokuta – 700 064, Pb::033/23340666/0004, Fax: 03655 278327

*

•

*

Annexurse - P

MEGHALAYA CEMENTS LIMITED

| | | Water Consumption(Monthly) : M ³ | | | | | | | | | | |
|---------------|-------------|---|-------------|-------------|-------------|-------------|--|------------------------------------|--|--|--|--|
| Location: CPP | Öct 2024 | Nov 2024 | Dec 2024 | Jan 2025 | Feb 2025 | Mar 2025 | Avg. (M ³ /Day Cons.) | Water Consumption not exceed | | | | |
| | 15734 | 16833 | 16663 | 17164 | 16212 | 18961 | 475.64 | 2000 m ³ /Day | | | | |

| · · | | Meteorological Data (Monthly Avg.) | | | | | | | |
|-------------|----------|------------------------------------|-------------|-------------|-------------|-------------|-------------|--|--|
| Location | Location | | Nov 2024 | Dec 2024 | Jan 2025 | Feb 2025 | Mar 2025 | | |
| | Min | 15.44 | 10.33 | 8.85 | 7.68 | 8.47 | 12.15 | | |
| Temperature | Max | 28.66 | 30.08 | 27.07 | 24.55 | 25.59 | 28.26 | | |
| | Avg. | 20.27 | 18.97 | 15.75 | 14.94 | 16.06 | 18.84 | | |
| | Min | 52.01 | 27.83 | 14.49 | 31.48 | 23.40 | 20.66 | | |
| Humidity | Max | 95.68 | 96.35 | 94.26 | 93.54 | 95.68 | 95.77 | | |
| | Avg. | 84.21 | 71.75 | 67.05 | 68.61 | 59.85 | 64.55 | | |
| | MTD | 160 | 5.50 | 0.00 | 0.00 | 0.00 | 37 | | |
| Rain Fall | YTD | 7567.50 | 7573 | 7573 | 7573 | 7573 | 7610 | | |

Prepared by AbhigyanGautam



Checked & Verified by Ullwalt Ujjwal Anurag

Regd. Office and Works: Village Thangskai, P.O. Lumshnong, DistJaintia Hills, Meghalaya Pin-793200 Ph.:03655-278324/363/364 Corporate Office: BE-77, Salt Lake City, Sector – 1, Kolkata – 700 064, Ph.:033 23340666/0004, Fax: 03655 278327

Annaxuse - VI

| UTALZ |
|--|
| TOPCEM |
| PERIODIC MEDICAL EXAMINATION MEGHALAYA CEMENTS LTD |
| |
| NAME KRIPA SHANKAR VERMA DATE OF EXAMINATION 02/03/27 |
| DESIGNATION DY. MANAGER DEPARTMENT CPP |
| AGE/SEX 48/M BLOOD GROUP C (+VE) BLOOD SUGAR (F) 103 mg/d1 EMPLOYEE CODE 2032 |
| IDENTIFICATION MARK Brown birthmonde Rt. upper check Mobile No 9862469405 |
| ANY COMPLAINTS NOR |
| PERSONAL HISTORY NOT |
| ANY HISTORY OF ALCOHOL / SMOKING / TOBACCO. NOVE |
| I AMILY HISTORY OF ANY DISEASE IVE |
| GENERAL EXAMINATION HEIGHT 165 cm, WE 69.7 Las BP 126 80 mm/Hg PULSE 88 Jour RESP RATE 16 Jour |
| CHEST MEASUREMENT FULLINSPIRATION 96 con. EXPIRATION 90 cm |
| EY6 Right Left |
| DISTANT VISION (WITH/WITHOUT GLASSES) 6/66 |
| NEAR VISION WITHOUT GLASSEST NJ 6 NJ 6 |
| ANY EQUOUR BUNDNESS/ NIGHT BUNDNESS/SQUINT/CYE DISEASES NAV |
| PALLUR /CYANOSS/ICTERUS/CLUBBING/LYMPHADENOPATHY/OEDEMA |
| TARS. NEARING - RIGHT, LIFT LEFT WILL ANY ORGANIC DISEASE NOVE |
| AUDIOMETRY LINE |
| eves M + 52 + ANY OTHER SOUNDS NOTE ILG (G) Alich |
| NO RAISED VEINS. O TOPE |
| RESPIRATORY SYSTEM BREATH SOUNDS CLOSE FRACHLA MULLING |
| ANY CREPTS/RONCHI |
| GI SYSTEM ABDORNEN Son NOT for Youble UNER/SPICEN NOT for Youble |
| GENITOURINARY SYSTEM: EXTERNAL GENITILIA |
| CNS: ANY FITS/SEIZURE/PARALYSIS/WEAKNESS |
| REFLEXES - PUPILLARY N KNEE JERK M ANKLE JERK M BABINSKI SIGN |
| GATT O TREMORS NOC ROMBERC TEST NUT FINGER NOSE TEST |
| MENTALHEATTH Good U FILMESS STATUS FILM. |
| |
| REMARKS :- DRA CEANO DR. LANU AKASH AIMOL DR. LANU AKASH AIMOL |
| REMARKS :- DR. LANUAKASHINGSI RMC Regd. No. 31651 RMC Regd. No. 31651 *ABBS, SPMC, Bikaner (Raj.) |
| (1. Awerd Augura Jocksteen, Jucath, REMARKS:- REMARKS:- Remarks |
| |
| Medical Office Meghalaya Caments Ltd |
| Meghalaya Comert |



0

•

Medical Office Meghalays Cameins L.J

1

Pre COPD Severity Report: COPD Severity within Normal range

Doctor's Comments

- Pre Medication Report :

FEVE/FVC% > 70

Meghaloya Comport Lia

18

14

13

\$0

8

ş,

4

2

Q

2

đ

-8

.28

10

00 00 00

6

5

3

FFL

V(Liters)

F(Liters/Sec)

FEF26%

DEFESO%

CIFEF75%

TEVC

1

\$

11

WINL .

Annexure - VI





MEGHALAYA CEMENT LTD, THANGSKAL

X-Ray Report

Name Of Patient STORING PR VERMO KRIPP Age/Sex 48 male Department SPP 02/03/25 Date

Trachea:

1-id line

BIT CHEM. No infilments

UNL.

Lungs Field :

Cardiac Field :

Aortic Knuckle :

Diaphragm ·

CP Angle :

Ribs & Other osseous structure of No acole prolong Solt lissue



Signature of Madical AlMOL DR. UNILAND No. 316 Afficer RNC Regd. No. 316 Afficer MBBS, SPMC, BRONDI (RUT) MBBS, SPMC, BRONDI (RUT) Medical Offices Weghalaye Cameros Ltd

Annexume - W



MEGHALAYA CEMENTS Ltd., Vill ~ Thangskal, PO - Lumshnong, East Jaintia Hills, Meghalaya, India, 793210

| Name: | MR. KRIPA SHANKAR VERMA(3032) | Invoice No: 740 | | Case No: | M750 |
|--------------|-------------------------------|-----------------|------|---------------|---------------------|
| Age/Sex: | 48 Years / Male | | | Registered On | 02-03-2025 11 37 AM |
| Referrer: | DR. LANU AKASH AİMOL | | | | |
| Type/Remark: | Healthray Patient | | | | |
| | - | Haematology | | | |
| TEST | | RESULT | UNIT | REFERE | NCE RANGE |
| Hemoglobin | | 14.3 | g/dt | 13-17 | |





Sankar Singha Lab Technician OHC MCL





Dr. Lunu Akash Almol RMO OHC MCL

Annexure - VI



MEGHALAYA CEMENTS Ltd., Vill – Thangskai, PO – Lumshnong, East Jaintia Hills, Meghalaya, Iadia, 793210

| Name: Age/Sex: Referrer: Type/Remark: | MR. KRIFA SHANKAR VERMA(3 032) 48 Yoars / Male DR. LANU AKASH AIMOL Healthray Patient | Invoice No | · 7#() | Case No: Registered On: | M750 02-03-2025 11:37 AM |
|--|---|------------|--------|----------------------------|-----------------------------|
| Type/Remark. | nearmay Faren | Biochemist | ry | | |
| TEST | | RESULT | UNIT | REFEREN | ICE RANGE |
| | OOD SUGAR Bloed Sugar H | 103.0 | ing/dl | 70 - 100 | |





Sankar Singha Lab Technician OHC MCL





Dr. Lanu Akash Almol RMO OHC MCL

Annexuse - VI



MEGHALAYA CEMENTS Ltd., Vill – Thangskai, PO – Lumshnong. East Jaintia Hills, Meghalaya, India, 793210

| Name: | MR. KRIPA SHANKAR VERMA(3032) | Invoice No: | 740 | Case No: | M750 |
|--------------|-------------------------------|-------------|-----|-----------------------|---------------------|
| Age/Sex: | 48 Years / Male | | | Registered On: | 02-03-2025 11 37 AM |
| Referrer: | DR. LANU AKASH AIMOL | | | | |
| Type/Remark. | Healthray Patient | | | | |

| | | Haematolog | âХ | | | | | |
|-------------------------|---------------------------|------------|-------|-----------------|--|--|--|--|
| | LIVER FUNCTION TEST (LFT) | | | | | | | |
| TEST | | RESULT | UNIT | REFERENCE RANGE | | | | |
| TOTAL BILIRUBIN | | 0.63 | mg/dl | 0.3 - 1.2 | | | | |
| SGOT (AST) | | 19 0 | U/I | 15-40 | | | | |
| SGPT (ALT) | | 22.8 | UZL | 10 - 49 | | | | |
| S. Alkaline Phosphatase | | 110 | U/L | 30 - 126 | | | | |
| SERUM PROTEIN | | | | | | | | |
| Total Protein | | 787 | g/dL | 57-82 | | | | |
| Albumin | | 3 9 0 | g/dL | 32-48 | | | | |
| Globulin | н | 3.94 | g/dL | 25-34 | | | | |
| A/G Ratio | | 1.00 | | 0.5.2 | | | | |

Interpretation :

Note :

 In an asymptomatic patient, Non-alcoholic fatty liver disease (NAFLD) is the most common cause of increased AST & ALT levels. NAFLD is considered as hepatic manifestation of metabolic syndrome.

2. In most types of liver disease, ALT activity is higher than that of AST; exception may be seen in Alcoholic Hepatitis, Hepatic Cirrhosis, and Liver neoplasia.

3. In a patient with Chronic liver disease, AST: ALT ratio>1 is highly suggestive of advanced liver fibrosis





Sankar Singha Lab Technician Ofi**C M**ICL





Or Lanu Akash Aimel RMO OHC MOL

Annexure - VI



LDL Cholesterol

TGL / HOL Ratio

CHOL/HDL Chol. Ratio

VLDL

OCCUPATIONAL HEALTH CENTRE

H 106.2

L 2.93

21

19.26

MEGHALAYA CEMENTS Ltd., Vil – Thangskai, PO – Lumshnong, East Jaintia Hills, Meghalaya, India, 793210

| Name: | MR. KRIPA SHANKAR VERMA(3032) | Invoice No. 7 | 40 | Case No. | M4750 |
|-------------|-------------------------------|---------------|-------|----------------|---------------------|
| Age/Sex: | 48 Years / Male | | | Registered On: | 02-03-2025 11:37 AM |
| Referrer: | DR. LANU AKASH AIMOL | | | | |
| Type/Remark | k: Healthray Patient | | | | |
| | | Blochemistry | | | |
| | | LIPID PROFILE | 100 | | |
| TEST | | RESULT | UNIT | REFEREN | ICE RANGE |
| TOTAL CH | GLESTEROL | 140.8 | mg/di | < 200 | |
| TRIGLYCER | RIDE | 96.3 | mg/di | <150 | |
| HOL Chole | sterol | 48.0 | mg/dl | 40 - 50 | |
| LDL / HDL | Ratio | 2.17 | | 1.5 3 5 | |





Sankar Singha Lab Technician OHC MCL





< 100

0-30

3 - 5

<3.12

mg/dl

mg/dl

RMO OHC MCL

I



Annexuse - VI

ł

Annexure - VI

ł





Annexane -VI

I

| HEALTHE |
|--|
| TOPCEM DEDIODIC MEDICAL EXAMINATION ACCUALAVA CEMENTS LTD |
| PERIODIC MEDICAL EXAMINATION MEGHALATA CEMENTS LID |
| NAME PAHAN KUMAR PAL DATE OF EXAMPLICATION 02/03/25 |
| DESIGNATION SR. FITTER DEPARTMENT CIP |
| AGE/SEX 48 M BLOOD GROUP AB (IVE) BLOOD SUGAR (F) 90 me/dl EMPLOYER CODE 2067 |
| IDENTIFICATION MARK Black Male Back of Mele (1) and Morena 8258958503 |
| ANY COMPLAINTS NOne |
| PERSONAL HISTORY NOVE |
| ANY HISTORY OF ACCONDIC / SMONING / TOBACCO |
| PAMILY HISTORY OF ANY DISEASE NOR-C |
| GENERAL EXAMINATION: HEIGHT 170 cm, WE 65.9 48 BP 138/86 100708 PULSE 72 Imm RISP RATE 16 1000 |
| CHEST MEASUREMENT: FULL INSPIRATION 44 cm. EXPIRATION 88 cm. |
| PYF · Right Left |
| DISTANT VISION (WITHAWITHOUT GLASSES) 66 6 |
| NEAR VISION (WERE / WITHOUT GLASSES) NG NG |
| ANY COLOUR BUNDNESS/ NIGHT BUNDNESS/SQUINT/EYE DISEASES NONC |
| PALLOR / CYANOSIS/ICTERUS/CLUBBING/LYMPHADENOPATHY/DEDEMA NIONE |
| EARS, HEARING : INGHT LINE LEFT LINE ANY ORGANIC DISEASE KIEW |
| AUDIOMETRY LINIL |
| CVS 51 + 52 + ANY OTHER SOONDS THE ECG ELANdy |
| IVP RAISED / NOT-RAISED VEINS |
| HESPERALORY SYSTEM - BREATH SOUNDS VEL (LEGA TRACHEA COMMAL |
| ANT CREPTS/RONCHI |
| GIT SYSTEM ABDOMEN Sept 131(F) LIVER/SPIEEN NOT for foods |
| GENITOURINARY SYSTEM EXTERNAL GENITIUA |
| CNS: ANY FUS/SEIZURE/PARALYSIS/WEAKNESS NO-C |
| PETTEXES PUPALIARY N KNEF KER N ANKLEJERK N BADINSKI SIGN NAR |
| GAUL N TREMORS NO. RUMBER 1151 M.C. FINGER NOSE TEST |
| MENTAL HEALTH Good |
| To Avoid city fathy foods a sugard |
| DEDADDIC . |
| ALL DR. LANU AKASHAIMOL RMC Regd. No. 31651 Summaniation |
| Signang a boctor |
| |
| Meghalave Coments Ltd |
| Mallin |



Annexy se - VI





MEGHALAYA CEMENT UTD, THANGSKAF

X Ray Report

Name Of Patient Age/Sex Department Date

PANAN KUMPE PAL ARIM cre 03/03/25

| 191 | 1 |
|----------------|-----------------|
| 1731 | hea: |
| 10 A. D. D. D. | 1.1.1.1.1.1.1.1 |

Milline

y NAn

Lungs Field :

Ble long fields clean of effortion for event one Condicated astronal subscripted with when times.

Aortic Knuckle

Cardiac Field :

Diaphragm:

CP Angle :

ret clabic-control

Ribs & Other osseous structure : XN study

Soft Tissue :

(A) Andy



Signeture of Medical Officer RMC Regis, No. 31051 MBBS, SPMC, Bicaner (Rat.) Mudical Officer Meghaloys Coments Ltd

Annexuse - Vi

NET THE WORKS COM TO F.



OCCUPATIONAL HEALTH CENTRE

MEGHALAYA CEMENTS Ltd., VIII - Thangskai, PO - Lumshnong, East Jaintia Hills, Meghalaya, India, 793210

| Name: | MR. PAWAN KUMAR PAL(2067) | Invoice No: 74 | 3 | Case No: | и. М7б3 |
|--------------|---------------------------|----------------|------|---------------|----------------------|
| Age/Sex: | 48 Years / Male | | | Registered On | 02-03-2025 1 2:09 PM |
| Referrer: | DR. LANU AKASH AIMOL | | | | |
| Type/Remark: | Healthray Patient | | | | |
| | | Haematology | | | |
| TEST | | RESULT | UNIT | REFEREN | NCE RANGE |
| Hemoglobin | | 16 | g/d∟ | 13-17 | |





Sankar Singha Lab Technician OHC MCL





Dr. Lanu Akash Aimol RMO OHC MCL

L

•

۰,

Annexure - VI



MEGHALAYA CEMENTS Ltd., Vill - Tharigskai, PO - Lumshnong, East Jaintia Hills, Meghalaya, India. 793210

| Name: | MR. PAWAN KUMAR PAL(2067) | Invoice No: 74 | 3 | Case No: | M753 |
|--------------|---------------------------|----------------|-------|----------------|---------------------|
| Age/Sex: | 48 Years / Male | | | Registered On: | 02-03-2025 12 09 PM |
| Referrer | DR. LANU AKASH AIMOL | | | | |
| Type/Remark: | Healthray Patient | | | | |
| | | Biochemistry | | | |
| TEST | | RESULT | UNIT | REFEREN | ICE RANGE |
| FASTING BL | OOD SUGAR | | | | |
| Fasting | Blood Sugar | 90 9 | mg/dl | 70 - 100 | |
| 2 | | | | | |



Sankar Singha Lab Technician OHC MCL





Dr. Lanu Akash Aimol RMO OHC MCL

L
Anneaure - VI

urt and managements with the state



OCCUPATIONAL HEALTH CENTRE

MEGHALAYA CEMENTS Ltd., Vill – Thangskai, PO – Lumshnong, East Jaintia Hills, Meghalaya, India, 793210

| Name: | MR. PAWAN KUMAR PAL(2067) | Invoice No: 743 | Case No: | M753 |
|--------------|---------------------------|-----------------|----------------|---------------------|
| Age/Sex: | 43 Years / Male | | Registered On: | 02-03-2025 12:09 PM |
| Referrer: | DR. LANU AKASH AIMOL | | | |
| Type/Remark: | Healthrey Potient | | | |
| | | Haematology | | |
| | | HRAIC | | |

| | HBATG | | | |
|---------------------------------|--------|------|-----------------|--|
| TEST | RESULT | UNIT | REFERENCE RANGE | |
| Glycosylated Hemoglobin (HbA1c) | 5.56 | añ. | 4 - 5.6 | |

Interpretation

HbA1c result is suggestive of non diabetic adults (>= (8 years) / well controlled Diabetes in a known Diabetic Interpretation as per American Diabetes Association (ADA) Guidelines

| Reference Group | Non-diabetic adult >=18 yrs | At risk (Prediabetes) | Diagnosing Diabetes | Therapeutic goals for glycemic control |
|-----------------|--------------------------------|-----------------------|---------------------|---|
| HbAlcin % | 4.0-5.6 | 5.7-6.4 | >= 6.5 | <7.0 |

Interpretation :

HbA1c %

| <5.6 | | Normal |
|---------|---|----------------------|
| 5 7-6 5 | • | At Risk for Diabetes |
| >6.5 | | Diabetes |





Sankar Singha Lab Technician OHC MCL





Dr. Lanu Akash Aimol RMO OHC MCL

l

Annexyse -VI



OCCUPATIONAL HEALTH CENTRE

MEGHALAYA CEMENTS Ltd., Vill - Thangskai, PO - Lumshnong, East Jaintia Hills, Meghalaya, India, 793210

MR. PAWAN KUMAR PAL(2067) Name: Invoice No: 743 Case No: M753 AR Years / Male Age/Sex: Registered On 02-03-2025 12:09 PM Referrer: DR. LANU AKASH AIMOL

Type/Remark: Healthray Patient

| | Haemat | ology | |
|-------------------------|---------------|--------------|-----------------|
| | LIVER FUNCTIO | N TEST (LFT) | |
| TEST | RESULT | UNIT | REFERENCE RANGE |
| TOTAL BILIRUBIN | | nig/dl | 0.3 - 1 : |
| SGOT (AST) | Stat. | U/I. | 15 - 40 |
| SGPT (ALI) | _ 4.6 | U/L | 10 - 49 |
| S. Alkaline Phosphatase | 114 | U/L | 30 - 120 |
| SERUM PROTEIN | | | |
| Total Protein | 633 | g/dL | 5.1-8.2 |
| Albumin | 4 17 | g/dL | 3. 2×4.8 |
| Globulin | L 2.06 | g/dL | 2.5 · 3 4 |
| A/G Ratio | H 2.07 | | 0_{i} |

Interpretation :

Note:

1. In an asymptomatic patient, Non-alcoholic faity liver disease (NAFLD) is the most common cause of increased AST & ALT levels. NAFLD is considered as hepatic manifestation of metabolic syndrome.

2 In most types of liver disease, ALT activity is higher than that of AST; exception may be seen in Alcoholic Hepatitis, Hepatic Circhosis, and Liver neoplasia.

In a patient with Chronic liver disease, AST; ALT ratio>1 is highly suggestive of advanced liver fibrosis.





Lab Technician OHC MCL





Dr. Lanu Akash Almól RMO OHC MCL

L



Annexyre - VI

Annexuse-VI



THANGSKAIL TO

Annexuse - VII

Six Monthly Reports:

PROCESS FUGITIVE EMISSION TEST RESULTS From Oct'2024 to March'2025

| | | | Fugitive E | mission R | <u>esults for</u> | SPM (µg/ | m ³) | |
|----------------------------|-------------|-------------|-------------|-------------|-------------------|-------------|------------------|---|
| Location | Oct 2024 | Nov 2024 | Dec 2024 | Jan 2025 | Feb 2025 | Mar 2025 | Avg. | As per standard limit (μg/m ³) |
| Lime stone Storage Area | 1142 | 1842 | 1764 | 1157 | 1287 | 1329 | 1420.16 | 5000 |
| Coal Storage Area | 1185 | 1538 | 1629 | 1014 | 934 | 1023 | 1220.50 | 2000 |
| Clinker Loading Area | 1935 | 2105 | 2237 | 2351 | 2147 | 2254 | 2171.50 | 5000 |
| Cement Loading Area | 2351 | 2535 | 2685 | 1964 | 1863 | 2145 | 2257.16 | 5000 |
| Coal Storage Area (CPP) | 1334 | 1134 | 1019 | 917 | 984 | 835 | 1037.16 | 2000 |
| Fly Ash Silo Area (CPP) | 989 | 1215 | 1374 | 1125 | 987 | 927 | 1102.83 | 2000 |

Prepared by Abhigyan Gautam



Checked & Verified by Uliwald Ujjwal Anurag

75

nnexuse-VII

msoch

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



th. Dated Shillong the February 2024

To,

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

29/2124

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 'REVOKED'.

Yours Faithfully,

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



hnexuse - VIII



MEGHALAYA CEMENTS LIMITED CIN-U26942ML2003PLC007125



To,

Date: 21.11.2024

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-2024 to October-2024 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 Piaza, 4th Floor, Christian Basti G.S. Road, Guwahati - 781 005 Tel. : 0361 2345421/22/23, Fax : 0361 2345419 E-mail : guwahati@tcccem.in

Kolkata : BE-77, Salt Lake City Sector-1, Kolkata - 700 064 Tel, : 033 2334 0666 / 0004 Fax: 033 2334 0505

Registered Office : Village: Thangskai, P.O. & P.S. Lumshnong District . East Jantia Hills, Meghalaya, PIN: 793210 Tel. : 03655 278324 / 363 / 364 Fax - 03655 278327



| SI, | Parameters | Obtained Value | | | | | Permissible |
|--------------------------------|-----------------------------------|----------------|--------------|--------------|--------------|--------------|-------------|
| No. | | Jun- 2024 | Jul- 2024 | Aug- 2024 | Sep- 2024 | Oct- 2024 | Limit |
| 1 | рН | 6.67 | 6.96 | 7.01 | 6.55 | 6.73 | 6.5 - 8.5 |
| 2 | Dissolved Oxygen (mg/lit) | 8.9 | 13.1 | 11.7 | 15 | 15.6 | - |
| 3 | Total Dissolve Solids (mg/Lit) | 189 | 155 | 134 | 166 | 142 | <500 |
| 4 | Conductivity (mg/Lit) | 250 | 198 | 185 | 197 | 193 | - |
| 5 | Total Hardness (mg/ Lit) | 51 | 76 | 85 | 59 | 81 | <300 |
| 6 | Calcium (mg/Lit) | 34 | 42 | 56 | 36 | 49 | <200 |
| 7 | Magnesuim (mg/Lit) | 17 | 34 | 29 | 23 | 32 | <100 |
| 8 | Alkalinity (mg/Lit) | 80 | 56 | 55 | 71 | 48 | <200 |
| Prepared BY Abhigyan Gautam | | | | | | | |

Meghalaya Cements Limited

:

•

Anneuro - 13

٠,

•

| | | DO | WNSTREAM V | eghalaya cement Thangskai , Meghalaya VATER ANALYSIS REPOR | Meghalaya cements limited Thangskai , Meghalaya DOWNSTREAM WATER ANALYSIS REPORT FOR THE YEAR 2024-25 | mited DR THE YEAR 2 | 2024-25 | | |
|---------|-----------------------------------|----------|------------|--|---|------------------------|----------|---|-------------------|
| | | | | | | | | | 01.04.2025 |
| | | | | Obtained | Obtained Values in | | | | |
| SI. No. | Parameters | 0ct'2024 | Nov'2024 | Dec'2024 | Jan'2025 | Feb'2025 | Mar'2025 | Average | Permissible Limit |
| 1 | hq | 6.63 | 6.76 | 6.71 | 6.71 | 6.55 | 6.78 | 6.690 | 6.5 - 8.5 |
| 5 | Dissoled Oxygen (mg/lit) | 6.9 | 9.74 | 6.5 | 7.2 | 5.9 | 9.53 | 7.628 | 1 |
| ю | Total Dissolve Solids (mg/Lit) | 143 | 136 | 81 | 128 | 88 | 42 | 103.000 | <500 |
| 4 | Conductivity (mg/Lit) | 190 | 212 | 152 | 205 | 176 | 149 | 180.667 | • |
| ъ | Total Hardness (mg/ Lit) | 39 | 31 | 23 | 19 | 28 | 36 | 29.333 | <300 |
| 9 | Calcium (mg/Lit) | 29 | 19 | 21 | 15 | 17 | 22 | 20.500 | <200 |
| 7 | Magnesuim (mg/Lit) | 10 | 12 | 2 | 4 | 9 | 14 | 8.000 | <100 |
| ω | Alkalinity (mg/Lit) | 47 | 56 | 39 | 53 | 48 | 39 | 47.000 | <200 |
| 6 | Cr+6 (mg/t) | 0.0267 | 0.0243 | 0.0248 | 0.0231 | 0.0259 | 0.0236 | 0.0247 | <0.05 |
| Abí | Prepared By Abhigyan Gautam | | | E THANGSKAN T | SENT LTD | | 5 | Checked & Verified By Uliwell I Uljwal Anurag | rified By |
| | | | | | | | | | |

Anneurose - 12

.

.

| | | | | Meghalaya | cements lin | nited | | | |
|-------------|-----------------------------------|----------|------------|-------------------------------|--|--------------|----------|---|---------------------|
| | | | UPSTREAM V | Thangskai , N VATER ANALYS | Thangskai , Meghalaya UPSTREAM WATER ANALYSIS REPORT FOR THE YEAR 2024-25 | THE YEAR 202 | 4-25 | | |
| | | | | | | | | | 01.04.2025 |
| N N N | Darameterc | | | Obtained | Obtained Values in | | | Average | Dermisscihle I imit |
| -041 ·10 | | 0ct'2024 | Nov'2024 | Dec'2024 | Jan'2025 | Feb'2025 | Mar'2025 | hvciage | |
| 1 | Hd | 6,68 | 6.6 | 6.73 | 6.75 | 6.61 | 6.73 | 6.687 | 6.5 – 8.5 |
| 2 | Dissolved Oxygen (mg/lit) | 6.4 | 11.2 | 6.5 | 6.9 | 6.2 | 7.8 | 7.500 | 1 |
| З | Total Dissolve Solids (mg/Lit) | 129 | 121 | 76 | 142 | 81 | 36 | 97.500 | <500 |
| 4 | Conductivity (mg/Lit) | 182 | 178 | 148 | 193 | 166 | 172 | 173.167 | |
| ß | Total Hardness (mg/ Lit) | 35 | 27 | 35 | 25 | 21 | 29 | 28.667 | <300 |
| 9 | Calcium (mg/Lit) | 26 | 18 | 21 | 20 | 11 | 16 | 18,667 | <200 |
| 7 | Magnesuim (mg/Lit) | 6 | 6 | 14 | 5 | 3 | 13 | 8.833 | <100 |
| 8 | Alkalinity (mg/Lit) | 43 | 46 | 55 | 47 | 56 | 34 | 46.833 | <200 |
| 6 | Cr+6 (mg/t) | 0.0289 | 0.0254 | 0.0288 | 0.0241 | 0.0275 | 0.0269 | 0.0269 | <0.05 |
| Abĺ | Prepared By Abhigyan Gautam | | | MEGH PLAN | THANGSKAI | | Ċ | Checked & Verified By Ullmedd Ujjwal Anurag | ed By |
| | | | | | | | | | |

-



••

•

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

As on Dated 31/03/2025

Anneause-X

de.

| | Continue. | A | 0 | | As on Dated 31/03/2025 |
|---------|-------------------------------|----------------------------|-------------------------------|------------------|--|
| 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, Mazagine 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 |
| 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 |
| Total | 125698 | 19.9253 | 96466 | 76.74% | |



Annoure - 2

Occupational Health Center Details

| <u></u> | | taff Details | |
|----------|---|--------------------|------------------|
| SI.No. | Name of Staff | Course | Designation |
| 1 | Dr. LanuAkashAimol | MBBS | Medical Officer |
| 2 | Dr. FedelisLungdin | BDS | Dental Officer |
| 3 | Sabir Hussain | GNM | Male Nurse |
| 4 | Shilpi Nath | ANM | Female Nurse |
| 5 | Wanpali | ANM | Female Nurse |
| 6 | TariniBezburah | RMP | Compounder |
| 7 | Shankar Kumar Singha | MLT | Lab Technician |
| 8 | Jyotishman Kashyap | Certificate Course | X-ray Technician |
| 9 | DeimonmiSuiam | 10th | Dresser |
| 10 | GenevolinLamare | 10th | Office Assistant |
| | Hospital Equipm | nent & Services | |
| Sl. No. | Hospital Equipments | Quantity | Remarks |
| 1 | ECG Machine | 1 | |
| 2 | Audiometery Machine | 1 | |
| 3 | Spirometery 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 | | |
| <u> </u> | Dental Equ | | 1 |
| 1 | Dental Chair | 1 | |
| 2 | UV STERILIZER | 1 | |
| 3 | Dental air compressor | 1 | |
| 4 | Dental Scalers Set | ANA SE. | |

HANGSKAI

2

Annexure - 21

| 5 | Dental Glass Bead Sterilizer | 1 | | | | | | | | |
|---------|--|---------------|----------|--|--|--|--|--|--|--|
| | | uipment's | <u> </u> | | | | | | | |
| 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 S | ervice @ 24x7 | | | | | | | | |
| 1 | BLS Ambulance | 1 | | | | | | | | |
| 2 | Mini Ambulance | 1 | | | | | | | | |
| | Lab Equipn | nent details | | | | | | | | |
| SI. | | | | | | | | | | |
| No. | Name of Equipments | Quantity | Remarks | | | | | | | |
| 1 | Microscope | 2 | | | | | | | | |
| 2 | Centrifuge Machine | 2 | | | | | | | | |
| 3 | Semi Auto Analyzer | 1 | | | | | | | | |
| 4 | Fully Automatic Hematology Analyzer | 1 | | | | | | | | |
| | Fully Automatic Immunofluorescence | | | | | | | | | |
| 5 | 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 | Haemocyto Meter | 1 | | | | | | | | |
| 14 | Test Tube Rack 3 | | | | | | | | | |
| 15 | ESR Stand 1 | | | | | | | | | |
| | Lab Testing Facility | | | | | | | | | |
| SI. No. | | | | | | | | | | |
| 1 | Blood Glucose:- Fasting, Random & PP | | | | | | | | | |
| 2 | COMPLETE BLOOD COUNT (CBC) | | | | | | | | | |
| 3 | ESR KIDNEY EUNCTION TEST (KET) | | | | | | | | | |
| 4 | KIDNEY FUNCTION TEST (KFT) | | | | | | | | | |
| 5 | LIVER FUNCTION TEST (LFT) | | | | | | | | | |
| 6 | LIPID PROFILE | | | | | | | | | |
| 7 | SERUM ELECTROLYTES | | | | | | | | | |
| 8 | THYROID PROFILE | | | | | | | | | |
| 9 | HbA1C | | | | | | | | | |
| 10 | C-Reactive Protien Latex Test | | | | | | | | | |
| 11 | R.F. (Latex Test) | | | | | | | | | |
| 12 | VDRL | | | | | | | | | |
| 13 | HBsAg (Hepatitis-B) | The second | | | | | | | | |
| 14 | HCV (Hepatitis-C) | (HALLAN) | | | | | | | | |

•



j.

Annexure - 2]

Т

| 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 | Тгор-Т | | | | | |
| 26 | ASO | | | | | |
| 27 | СКМВ | | | | | |
| 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 | | | | | |

.

•

•.



Annexule - XII

c#

SALARY DETAILS OF CLEANER FOR THE MONTH OF MARCH'25

1

ſ

| SALARY DETAILS OF CLEANER FOR THE MONTH OF MARCH'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 POHBAN | 2273 | FEMALE | 01.04.2011 | Workmen | HR&A | CLEANER | 14071 | |
| 8 | KYRSOI SYIH | 2275 | FEMALE | 01.04.2011 | Workmen | HR&A | CLEANER | 18660 | |
| 9 | PHYRNAI 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 | |
| 32 | ISKAPAIA LAMARE | 5429 | FEMALE | 02.07.2018 | Workmen | HIREA | CLEANER | 13973 | |
| | | | | | 3 | | | | |
| 34 | | 5436 | FEMALE | 13.08.2018 | S Workmen | K HR&A | CLEANER | 13881 | |
| 35 | SOMLY SURONG | 5589 | FEMALE | | Workmen | HASA | 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 | |

Uliwalf

| | | | | | | | Anne | aude -i |
|---|-------------------|----------|--------|------------|---------|------|---------|---------|
| SALARY DETAILS OF CLEANER FOR THE MONTH OF MARCH'25 | | | | | | | | |
| S.N. | NAME | CODE NO. | SEX | D.O.J. | GRADE | DEPT | DESIG | SALARY |
| 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 KHONGIONG | 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 KHONGIONG | 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 | MILI ROY | 2282 | FEMALE | 01.04.2011 | wкм | HR&A | CLEANER | 11979 |
| 62 | BABLI ROY | 2284 | FEMALE | 01.04.2011 | WKM | HR&A | CLEANER | 14174 |
| 63 | MEENATI MALAKAR | 2328 | FEMALE | 01.04.2011 | WKM | HR&A | CLEANER | 14174 |

I



•

Annexuse -XII

| S.N. | NAME | CODE NO. | D.O.J. | SEX | GRADE | DEPT | DESIG | SALARY |
|------|-----------------|----------|------------|--------|-------|------|---------|--------|
| 1 | MILI ROY | 2282 | 01.04.2011 | FEMALE | WKM | HR&A | CLEANER | 11979 |
| 2 | BABLI ROY | 2284 | 01.04.2011 | FEMALE | WKM | HR&A | CLEANER | 14174 |
| 3 | MEENATI MALAKAR | 2328 | 01.04.2011 | FEMALE | WKM | HR&A | CLEANER | 14174 |

SALARY DETAILS OF CLEANER FOR THE MONTH OF SEPTEMBER'2024



Annexuene - XIII

Photographs of several endemic species

Nepenthes Khasiana, Nepenthaceae



Annowedie - XIII

Begonia rubrovenia, Begoniaceae



Ceologyne ovalis, Orchidceae







Amoxede - xil CENT LTO DUSTBIN DISTRIBUATION TO WAHALJER, THANGSKAI & CHIEHRUPHI -(APRIL'2024) HANGSKAI 174 VECHO 12 ai. E OP OE TUDRES UPPRIS TOPPE 'n 1 VILLAGE (20 NOS. FOR EACH VILLAGE). 1133113 DIN

LTO Amexicle - Si VILLAGE, WHO WERE AFFECTED BY THE DEVASTATING HAILSTORM CGI SHEET DISTRIBUTION TO THE NEEDY VILLAGERS OF WAHIAJER -(11th JUNE 2024) VECY 5 しょ CAUSED BY CYCLONE REMEL. ~ 3

LTG Annexedle - XIV FOOTBALL BOOT DISTRIBUTION TO THREE VILLAGE THANGSKIA, WAHIAJER & CHIEHRUPHI CHILDREN (JUNE 2024) PCE



Anrexelle - XN





Annexuere - Xil

team together in a shared moment of devotion and gratitude. Wishing peace, Organized a Rudrabhishek ceremony at our MCL Plant Temple, bringing our -(20th AUG'2024) prosperity, and success for all.









dens Annexuete - XIV Vishwakarma Puja is a significant day of celebration, dedicated to Lord Vishwakarma, the divine architect and engineer of the universe. -(17 Sept'24)
























Annexulle - Sil LTO 20 e Nation. - (Mar' 2025) Celebrated the "National Safety Day/Week campaign program inside our Plant premise along with whole Nation.





| 10 - 21V | | | | | | | | | - |
|----------------|--------------------------------------|-------------|---|--------------------------|---|---|------------------------|-----------------|-------|
| Anneauere - AN | EMPHASIS ON EDUCATION (April 2024 to | March 2025) | Monthly Salary for 01 TEACHER OF Chiehruphi | Higher Secondary School. | Rs. 31000/- per month | October'24 to March'25 (06 month X 31000/-) | • Total Rs. = 186000/- | ALECHART CENTRE | |





Annexugo - XN

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. |
| | | | Range -0 to 10 Micro meter in Diameter. | |
| 7 | High Volume Sampler (03 Nos.) | APM-430 / 1.640- DTL-05, 2.641-DTL- 05, 3.642-DTL-05 / Vayubodhan Envirotech Instrumentation | Range of Flow rate – 1.1 to 1.7 Cu M ³ / mn | 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 Pyt. 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 SO2, Nox, Co, Co2 & O2 measurement in Flue gas | Make -KANE |
| | | | Flue gas | HOD |

Meghalaya Cements Ltd.

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

Environment Management Cell Details

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

Annexulte

HOD

| 14 | Respirable dust samplers | Serial No. 640- DTL-2005, . 641- DTL-2005, . 642- DTL-2005 | For Measurement of PM 10 & PM 2.5 | Make- Envirotech Inst. (P) Ltd. |
|----|--|--|--|--|
| 15 | Automatic station for recording of micrometeorological parameter | DT- | For Rain fall, temperature, RH & wind speed measurement | AIMIL LTD |
| 16 | Sound pressure level meter | Model No. 05D101013 | For noise level monitoring | Make- Raytheon Tech |
| 17 | Stack monitoring kits | 01-DTH-2016 | For Measurement of Dust emission form Stacks | Make- Envirotech Inst. (P) Ltd. |
| 19 | Automatic station for recording of Ambient Quality Monitoring | Installed near gate no. 03 | Form real time monitoring of Ambient air quality | Supplied Swan Environmental |
| 20 | Automatic station for recording of Stack Emission Monitoring | For RABH, Cooler ESP, Cement Mills and CPP stack emission monitoring | Form real time monitoring of stack emission | Supplied by Glens |
| 21 | Portable Air Quality Analyzer | For Real time Ambient air quality monitoring | Form real time monitoring of stack emission | Supplied by M/s. Swan Environmental |
| 23 | Temperature Gun | Model No. IRX-63 | Range (-) 50°C to 1850°C | Make- HTC |
| 24 | pH Meter | Sl. No, 361/7928 | Range 0 to 14 | Systronics |
| 25 | Nephlo Meter | Sl. No, 1307138 | Range 0 to 200 NTU | |
| 26 | Conductivity | Sl. No. S/6117- 01-17 | | |
| 27 | CHROMIUM VI CHEMICAL TEST KIT | JANA CEMICZ | Chromium, Hexavalent Range: 0.0 to 1.0 mg/L Chromium, Hexavalent Resolution: 02. mg/L | HANNA EQUIPMENTS (INDIA) PVT. LTD. |
| | | (THANGSKAI) | | 1 |
| | | | t | 211walg |

Dept: _Environment

