

Green Valliey Industries Limited

CIN NO.: U26942ML2007PLC008273

o/c

16th Jan 2026

No: GVIL/ENV/SC/2024-25/02

To,

The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (NEZ),
Law-U-Sib, Lumbatngen, Near MTC Workshop,
Shillong, Meghalaya.

Sub: Status of Compliance of Environment Stipulations – Plant Regarding

Respected Sir/ Madam,

With reference to the subject cited above, please find herewith the status of compliance of Environment stipulations directed by SEIAA for the period October 2024 – March '2025 with details enclosed.

This is for your kind information and record please.

Yours Sincerely,

For Green Valliey Industries Limited.


Authorized Signatory
Pawan Kumar Joshi
(Vice President)



Enclosed:

- Status of Compliance Report for the period October'2024 - March'2025
- Ambient Air Monitoring Report. (Annexure-I)
- Stack Monitoring Report. (Annexure-II)
- Noise Level Monitoring Report. (Annexure-III)
- Fugitive Emission Monitoring Report (Annexure-IV)
- Work Zone Monitoring Report (V)
- Annexures as listed.

Copy to:

- The Member Secretary, State Environment Impact Assessment Authority, Shillong.
- The Member Secretary, Meghalaya State Pollution Control Board, Shillong.
- The Zonal Office, Central Pollution Control Board, Shillong.
- The Member Secretary, State Expert Appraisal Committee (SEAC), Shillong.

Guwahati Office: 4th Floor, LB Plaza, G.S. Road, Bhangagarh, Guwahati-781 005, T +91 361 2465481 / 82 / 83 / 84
Regd. Office & Plant: Vill. Nongsning, P.O. Chiehruphi, PS. Khliehriat, Dist. Jaintia Hills, Meghalaya-793 200
Group Corporate Office: 602 'LORDS' 7/1, Lord Sinha Road, Kolkata-700 071, T +91 33 22827367 / 7368 F +91 33 22828307
E : info@greenvalliey.com

A GNG GROUP COMPANY

Status of compliance of Environment stipulations as set by SEIAA for
M/S GREEN VALLIEY INDUSTRIES LTD.
For the period October-2024 To March-2025.

Introduction:- M/S Green Valliey Industries Limited was given environmental clearance for construction of an Integrated Cement Plant of 1300 TP D expandable to 2600 TPD along with 2x10 MW Captive Coal Based Thermal Power Plant at village Nongsning, Chiehruphi, Jaintia Hills, Meghalaya on 28th March, 2009.

STATUS OF COMPLIANCE OF ENVIRONMENT STIPULATIONS:

SPECIFIC CONDITIONS:

Sl. No.	Conditions	Status
1.	High efficiency Electrostatic precipitators (ESPs) shall be installed in the Thermal Power Plant to limit particulate emission to 50mg/Nm ³ .	Please note that the Thermal Power Plant for this site has not been installed yet.
2.	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 plant.	- We have installed dust extraction and suppression system at all the transfer points. - We do use water spray on the transfer points of clinker cooler, preheater cyclone, Limestone crusher and Cement Mill to control dust emission in the plant. - At unloading points of coal, we have already installed water spraying system for effective dust suppression. - Water tanker is being used on regular basis for water sprinkling, from the main road to plant area.
3.	Water requirement shall be met from the existing water source which would be restricted to 1220 m ³ /day. No ground water shall be extracted for the DG set at any stage.	Water Consumption is below 1220 m³/day, for which we send the returns to MSPCB on monthly basis and No ground water is being extracted.
4.	Closed cycle cooling system with induced draft cooling towers shall be provided.	Please note that the Thermal Power Plant for this site has not been installed yet.
5.	The treated effluents shall be re-circulated and reused within the plant area. There shall be no waste water discharge outside the plant boundary.	All the water used for plant operation are re-circulated and reused, through water cooling tower. STPs have been installed to treat domestic waste water and the treated water is being utilized for Plantation and sprinkling on roads.



6.	Rainwater 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 and a copy of the same shall be submitted within six months to the monitoring agency.	Rainwater harvesting have been set up and practiced, in consultation with Central Ground water Authority/State Ground Water Board, (Annexure- 1).
7.	Leq of noise level in the DG set premises shall be limited to 75 db A and regular maintenance of equipment should be undertaken. For personnel working in high noise areas, personal protection devices should be provided. Acoustic hoods shall be provided in respect of all equipment's that have potential to contribute to noise pollution.	Personal protection devices are being used by all the workers working in high noise area of the plant and the noise produced are below the prescribed limit. (Attached Noise Monitoring Report as Annexure-III)
8	Dry ash collection system shall be provided in the Thermal Power Plant.100% ash utilization shall be insured from the very first day of commissioning of the thermal power plant.	We have not established Thermal power plant, hence no generation of Dry ash.
9.	A stack of minimum 100m height shall be provided with continuous on-line monitoring system in respect of Thermal Power Plant considering the dispersion sensitivity and geographical location of the plant. The data collected shall be analyzed and submitted regularly to the Meghalaya State Pollution control Board and SEIAA.	We have not commissioned Thermal Power Plant.
10.	The stack emission from various sources shall not exceed 50mg/Nm ³	The revised target of 30 mg/Nm³ is being followed strictly. The stacks have been connected to OCEMs which transmits online data to CPCB and MSPCB every 15 minutes. (Attached Stack Monitoring Report as Annexure-II).
11.	Bag house/ filters shall be provided to control the fugitive emissions during loading and unloading of raw materials/intermediate and finished products.	Bag house/ filters have been provided to control the fugitive emissions at vulnerable areas of the Plant. (Attached Fugitive Emission Monitoring Report as Annexure-IV)



12.	a) The Storage of the coal dumps shall be housed by permanent sheds open on all sides and stacked on impervious floor, preferably cemented to prevent Acid Mine Drain (AMD). b) The project proponent shall construct garland drains along with AMD Neutralisation tanks, in consultation with and approved by the SPCB c) No direct discharge of AMD into any drains/natural drains shall be allowed; proper treatment of AMD shall be done by the Project proponent.	• A permanent coal yard has been extended for its capacity and fully complied by concreting the floor with proper shed to avoid any contamination of water. • We have already constructed garland drains connecting to AMD tank, • We have approached MSPCB officials for upgrading and modifying our current AMD Tank for the design and their guidance (Annexure-2).
13.	The locations of ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Meghalaya State Pollution Control Board (MSPCB) and additional stations shall be installed, in the downwind direction as well as where maximum ground level concentrations are anticipated.	• We have established four AAQMS in the plant as per the directions and guidelines of CPCB with the approval from MSPCB (Annexure- 3). at: • Near Guest house, • Near DM Plant. • Near Staff Colony. • Near HOD Colony.
14.	Total water requirement shall not exceed 1220 m ³ /day. The project authorities shall install sewage treatment plant of minimum 80 m ³ /day capacity 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. Surface water restricted to a maximum of 1220 m ³ /day shall be drawn from perennial stream of Umtiling flowing nearby and no surface runoff from the factory premises shall either reach/contaminate Um-lunar or any other stream flowing at a site situated to the west of the industrial location.	• Daily water consumption is below the prescribed limit. • STPs have been installed for treating domestic sewage and the same treated water is being used in Sprinkling the road and Spraying for Plantation.
15.	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.	• We have approached Municipal Board of the District for Material use of High Calorific value hazardous waste (Annexure- 4). • However, waste generated within the Plant premises are being fed in the kiln.



16.	The project proponent have not proposed procurement/development of any captive mine in respect of limestone requirement which is estimable to be high. The project proponent shall take expedient steps to procure limestone's mining leases covering such mining area that would be necessary to sustain the limestone requirement of the cement plant. The entire process shall be completed by the time the industry becomes operational and the project proponent shall source its limestone's requirement to run its industry only from such mining leases. The project proponent shall compulsorily take all such steps as are necessary to discourage procurement of limestone that would tend to promote unscientific mining and consequential environmental degradation.	• Process for obtaining Prospecting License / Mining Lease for three blocks -Madan Pyrda Block –I (4.89 Ha.), Madan Pyrda Block –II (10.71 Ha.) & Surve Larung (44.58 Ha.) has already been taken prior to the industry became operational. • Present status of all the three applications are as follows: - 1. <u>Madan Pyrda Block –I (4.89 Ha.)</u> – Mining Plan has been Approved. EC granted; Final Approval for Forest Clearance has been obtained. Mining Lease Deed has been executed. 2. <u>Madan Pyrda Block –II (10.71 Ha.)</u> - ORDER / LOI (Letter of Intent) obtained. The Mining Plan has been approved. EC granted. All other clearances such as Forest Clearance, are in progress. 3. <u>Surve - Larung (44.58 Ha.)</u> – ORDER / LOI (Letter of Intent) obtained. The Mining Plan has been approved. All other clearances such as Forest Clearance, EC etc. are in progress.
17.	The project proponent shall transport raw materials and industrial products through covered means.	• All raw materials and industrial products are transported through covered means.
18.	The project proponent shall secure a certificate from the Principal Conservator of Forests, Meghalaya that the core project area is a non-forest land within 3 months of issue of prior Environmental clearance.	• Securing of Non – Forest Certificate for the core project area from Principal Conservator of Forest, Meghalaya is under process.
19.	Thirty three percent of the core project area (17ha) shall be developed as green belt as per the guidelines of central pollution control board to mitigate the effects of fugitive emission. The program ought to be completed within 5 years from the date of issue of prior Environmental Clearance adhering to time and cost schedule detailed by the project proponent through incurring and expenditure of Rs. 9.5 Lakhs as stated by him.	• The company has developed 15.69 Ha as green belt and remaining plantation work is in progress. (Annexure- 5)



20.	The project proponent shall provide a Health care Center with all emergency medicines and ambulance along with full time doctors. There shall be a casualty ward that would be operational round the clock duly attended by a suitable doctor. Occupational health surveillance of the workers shall be carried out on a regular basis in terms of their EMP document and records shall be maintained as per the Factories Act.	- Occupational Health Care Centre already functioning with company appointed Medical Officer, accompanied by trained lab technician, nurse and helper. Health register is being maintained. - We also have Ambulance facility to commute and address employees with any severe medical issues. - Occupational Health surveillance of employees are carried out annually in consultation and check up with experts for which we maintain the record.
21.	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.	Measures are 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.
22.	The project proponent shall raise conservation plots (over an area not less than 2ha) complete with green house, mist chamber etc. in respect of plants of conservation value in consultation with Botanical survey of India complete with cost and activity schedule within 6 months from the date of issue of prior Environmental Clearance and initiate implementation immediately thereafter. A copy of the conceptual shall be submitted to the monitoring agency.	Mist Chamber constructed (under the consultation with Botanical Survey of India, Shillong). Further development and upgradation in progress. (Attached photograph as Annexure-6)
23.	The project proponent shall sponsor research and development for conservation of threatened category of species occurring locally such as <i>Nepenthes khasiana</i> and <i>Calamus khasiana</i> to 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 lakhs per year spread over at least 3 years.	Will be done.



24.	A 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 wildlife would be submitted to the monitoring agency within a maximum of 1 year from the date of issue of prior Environmental Clearance.	As per discussion in MoEF&CC Office, we are already a part of the combined Wildlife Conservation Plan for Narpuh Circle.
25.	A sum of Rs. 2302 lakhs (being 9% of capital cost of infrastructure of the project) shall be spent by the project proponent towards environment protection. A further sum of Rs. 15 lakhs per year shall be spent by the project proponent towards economic development of the area till the project subsists.	We are playing our part in support towards economic development of the area, attached expenditures in previous 3 Financial Years. (Annexure- 7)
26.	The pollution control units/processes to be installed shall be vetted by experts from a reputed institute such as NEERI, IIT and NIT.	The installed pollution control units/processes have been vetted by experts from NIT (Annexure- 8)
27.	The project proponent shall ensure monitoring of biodiversity component at the interval of every five years by an independent expert agency to assess the impact of the project thereupon. The report shall be submitted to the monitoring agency.	Discussed with the experts from Centre for Biodiversity and natural resources conservation, Assam University for their guidance and help in this matter. We have also approached SEIAA for their intervention and guidance. (Annexure- 9)

GENERAL CONDITIONS:

Sl. No	Conditions	Status
1.	The project proponent shall not violate applicable provisions of any Acts, Rules Orders of the Government and judicial orders issued by the Hon'bl Supreme Court/ High Courts/ NGT, applicable to the project.	GVIL is abiding by the provisions and shall continue to do so.
2.	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests or their nominated authority as the case may be. In case of deviation or alteration in the project proposal from those submitted to this committee for clearance a fresh reference shall be made to the SEAC through SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	GVIL will follow the guidelines.



3.	The gaseous emissions (SO ₂ , NO _x) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no point of time, the emissions shall exceed the prescribed limits. Interlocking system of equipment shall be chosen such that in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	We have installed online SO₂, NO_x analyzers and are maintaining the emission under prescribed limit and online data is being submitted to MSPCB and CPCB on regular basis.
4.	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 processes. - Use of closed pneumatic system for transport of fine material. - All venting systems shall be connected with dust or particulate arresting equipment's. - Dust/particulate matter collected in pollution control equipment's shall be reused.	- There is no generation of any by-products at our Plant - We are using Air Slides to transport fine materials, which consume less power, has no dust loss and is a closed system. - RABH and ESP have been installed connecting Cooler, and other venting lines. - Dust/ particulate matter collected in pollution control equipment's are being reused.
5.	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 SPCB/CPCB.	Fugitive emission tests and Work Zone Monitoring are being carried out, which conforms to the limits imposed by SPCB/ CPCB. Attached as (Annexure- IV and V).
6.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures such as acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986, Environment (Protection) Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time)	Acoustic hoods, Silencers have been provided and the noise level is being maintained under the prescribed limit.



7.	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended and Hazardous Waste (Management Handling) Rules, 1989 as amended from time to time. Authorization from the MSPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	Complied. Authorization from the MSPCB has been obtained for collection, storage and disposal of hazardous wastes, attached as (Annexure- 10), and Other Waste (Annexure- 11).
8.	Rainwater harvesting measures shall be done within the premises. Ground water recharge structures shall be installed around the plant area in consultation with local authorities to maintain the ground water table.	Complied. Rainwater harvesting and ground water recharge structures have been set up and practiced, in consultation with Central Ground water Authority/ State Ground Water Board, (Annexure- 1).
9.	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment. The eco- development plan should be submitted to the monitoring agency. Within six months of issue of prior Environment clearance.	The eco development plan has been approved by NEHU. Has been all rules and Regulations it will be followed by Green valliey Industry LTD.
10.	A separate Environmental management cell equipped with full-fledged laboratory facilities as detailed by the project proponent shall be set up to carry out the Environmental Management and monitoring functions	We have established full-fledged Environmental Laboratory as per your guidelines.
11.	All pollution control equipment in STP shall be manned full time by trained personnel.	STP is functional and being operated by trained personnel.
12.	The implementation of the project vis-a-vis environmental action plans shall be monitored by the Regional office, Ministry of Environment & Forest duly assisted by the SPCBA six monthly status report shall be submitted to the stated institutions and state Environment impact Assessment Authority/SEAC apart from posting the same on the website of the company.	- A six-monthly status report is being submitted to MoEF&CC, Shillong. - The same is updated and posted on our official website at: http://www.maxcement.co.in/
13.	The project proponent will make provisions to keep standby spares at the plant site of pollution control units/devices during operation of the cement plant.	We maintain spares for Reverse Air Bag House and also spares for Filter Bags of other sections.



14.	The project proponent will arrange to carry out regular maintenance of all the pollution control Units/devices to ensure its sufficient performance all the time.	• Our maintenance team is regularly monitoring the pollution control devices to keep the pollution control equipment in good condition and ensure efficient performance at all times.
15.	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.	• We shall abide by any Acts, Rules Orders of the Government and Judicial orders issued by the Hon'ble Supreme court/ High courts/ NGT, applicable to the project.



Annexure -I



Envirocon Building, I.O.C.L (AOC) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171
Ph: 03751-264414, 9436002667, 9876028878
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified
ISO 45001:2015 Certified

Report No.: ENV/GVIL/24-25/AA-01/01
Date : 07/02/2025

Order No.: 3002003084
Date : 30/04/2024

Report Issued To: **GREEN VALLEY INDUSTRIES LIMITED**
Village: Nongmaing, P.O.: Chiehruphi, P. S. Khilakrist, East Jaintia Hills, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) & LIMIT(S)	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
			60	100	40	80
01	Near Guest House	19.01.2025	20.2	29.8	<5.0	<6.0
02	Near DM Plant	19.01.2025	21.6	62.5	<5.0	<6.0
03	Staff Colony	20.01.2025	25.7	51.6	<5.0	<6.0

Analysis Protocol: IS 5182



Signature
Checked By: Mr. Parikuj Baroi, ENVIROCON

- NOTE:
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 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced or used in full, without the written permission of ENVIROCON, I.O.C.L (AOC) New Market, Digboi - 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIP), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Annexure-II



Envirocon Building, L.O.C.L (AOD) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171
Ph: 03781-864414, 9438008687, 9876028673
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified
ISO 45001:2018 Certified

Report No.: ENV/GVIL/24-25/SE-01/01
Date : 07/02/2025

Order No.: 3600003084
Date : 30/04/2024

Report Issued To : **GREEN VALLEY INDUSTRIES LIMITED**
Village: Nongstang, P.O.: Chichruphi, P. S.: Khilchriat, East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GVIL/2025/SE-01/01		
02	Date of Sampling	19.01.2025		
03	Material of Consumption	H.S		
04	Stack Attended To	K. A. K. H.		
05	Flue Gas Temperature (°C)	176		
07	Dry Velocity of Gas (m/sec)	19.1		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
I.	Particulate Matter	21	mg/Nm ³	30
II.	Sulphur Dioxide (as SO ₂)	473	mg/Nm ³	700
III.	Oxides of Nitrogen (as NO _x)	219	mg/Nm ³	600



Checked By: Mr. Paritaj Barot, ENVIROCON

NOTES:

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Annexure -II



Envirocon Building, I.O.C.L. (AOD) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171
Ph: 03781-864414, 9435003657, 9878028672
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified
ISO 15001:2015 Certified

Report No: ENV/GVL/24-25/SE-01/03
Date: 10/02/2025

Order No.: 1000003084
Date: 30/04/2024

Report Issued To: **GREEN VALLEY INDUSTRIES LIMITED**
Village: Nongsting, P.O.: Chokmah, P.S.: Kildiehrat, Dist. Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	GVIL/2025/SE-01/03		
02	Date of Sampling	19.01.2025		
03	Material of Condenser Pipe	M.S.		
04	Stack Attached To	Caster E.S.P.		
05	Flue Gas Temperature (°C)	233		
06	Exit Velocity of Gas (m/sec)	8.2		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
I.	Particulate Matter	77	mg/Nm ³	80
II.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	700
III.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	600

*BDL: Below Detection Level



Pankaj Baroi
Signature of Mr. Pankaj Baroi

Issued By: Mr. Pankaj Baroi, ENVIROCON

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Annexure-III



Envirocon Building, I.O.C.L (AOC) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171
Ph: 93761-284414, 9435008667, 9876028672
E-mail: envirocon@rediffmail.com

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Report No.: ENV/GVIL/24-25/N-01/01
Date : 07/02/2025

Order No.: 3600003004
Date : 30/04/2024

Report Issued To: **GREEN VALLEY INDUSTRIES LIMITED**
Village: Nongstang, P.O.: Chiekrapht P. S. Khliehriat, East Jaintia Hills, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date of Measurement	Day time		Night Time	
			L _a (dB-A)	Limit (dB-A)	L _a (dB-A)	Limit (dB-A)
1	Near Main Gate	19.01.2025	60.4	75	61.8	50
2	Staff Colony	19.01.2025	56.6	55	48.6	45



Pamphani
Checked By: Mr. Pamphani Barot, ENVIROCON

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Annexure - IV



Envirocon Building, I.O.C.L. (AOD) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171
Ph: 03751-264414, 9435008637, 8876028632
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified
ISO 45001:2018 Certified

Report No.: ENV/GVIL/24-25/FE-02/01
Date : 06/03/2025

Report issued To : **GREEN VALLIEY INDUSTRIES LIMITED**
Village: Nongming, P.O.: Chiehruphi, P. S.: Khliehriat, East Jaintia Hills, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Location	Fugitive Emission Result for SPM ($\mu\text{g}/\text{m}^3$)	Limit ($\mu\text{g}/\text{m}^3$)
18.02.2025	Coal Handling Area (Near DM Plant)	875	2000
18.02.2025	Lime Stone Crusher Section	1968	5000



Checked By: Mr. Panikaj Baroi, ENVIROCON

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Annexure - V



Envirocon Building, I.O.C.L. (AOD) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171
Ph: 03761-264414, 0439008687, 9876028872
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified
ISO 45001:2018 Certified

Report No.: ENV/GVL/24-25/WZ-02/01

Date : 06/03/2025

Report Issued To : **GREEN VALLEY INDUSTRIES LIMITED**

Village: Nongsoning, P.O.: Chichruphi, P. S.: khliehriat, East Jaintia Hills, Meghalaya

WORK ZONE AIR QUALITY TEST RESULTS

Date	Locations	Results for SPM (mg/m ³)	Limit (mg/m ³)
18.02.2025	Packing Plant	0.57	2.0
18.02.2025	Cement Mill Dump Hopper	0.83	2.0



Checked By: Mr. Parikaj Baroi, ENVIROCON

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3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L. (AOD) New Market, Digboi, Tinsukia, Assam.



Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIP), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Annexure -1

Green Vallley Industries Limited

5th May, 2018

CIN NO.: U26042ML2007PLC008273

To,
Shri Tapan Chakraborty,
Scientist "C"
Central Ground Water Board,
Opposite Assam Secretariat Building,
Keating Road Shillong-793001
Meghalaya

Sub: Rain Water Harvesting & Ground Level Recharge – Reg.

With reference to our discussion on 2nd May, 2018 in your office regarding rain water harvesting in our plant, Green Vallley Industries Limited at Village Nongsning, East Jaintia Hills Meghalaya, following the environmental compliances raised by State Environment Impact Assessment Authority (SEIAA):

1. "Rainwater 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 and a copy of the same shall be submitted within six months to the monitoring agency."
2. "Rainwater harvesting measures shall be done within the premises. Ground water recharge structures shall be installed around the plant area in consultation with local authorities to maintain the ground water table."

Further, we are pleased to inform you that we are practicing ground level recharge in our plant in the consultation of M/s Envirocon connecting our Guest house building for which the photograph and drawing is enclosed herewith.

Moreover, we shall be greatly obliged, if you would kindly guide us for a plan relating to rain water harvesting and ground level recharge.

As required, following is the GPS details for Latitude, Longitude and Altitude of the site for your reference

Latitude	Longitude	Altitude
N-25°14'21.2"	E - 92°23'15.9"	MSL-693M

Thanking you,
Yours Sincerely,
For Green Vallley Industries Ltd.

Authorized Signatory
Pawan Joshi
(Asst. Vice President)

- Enclosed:
1. Photographs of Ground level recharge at site (Annexure-1)
 2. Drawing of Ground level recharge (Annexure-2)



Guwahati Office : 4th Floor, LB Plaza, G. S. Road, Ehangagarh, Guwahati - 781 005, T +91 361 2465461 / 62 / 63 / 64
Regd. Office and Plant : Vill. Nongsning, P.O. Chiehruphi, PS. Khliehriat, Dist. Jaintia Hills, Meghalaya - 793 200
Group Corporate Office : 602 'LORDS' 7/1 Lord Sinha Road, Kolkata - 700 071, T +91 33 22827367 / 7368, F +91 33 22828307
E : info@greenvalley.com

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Received
2/5/18
13/5/18
Dispatch
Central Ground Water Board
State Unit Office
Keating Road
Shillong - 793001

Annexure - 1

4



6



Ground Level Recharge for Rain Water

A Ground level recharge plan is implemented for non-polluted rain water in our Guest House building near Administration office for the roof top area to recharge the ground level through separate PVC pipes of 8 inch dia. Whereas, before the onset of the monsoon all the catchment area (roof top) considered for recharge is cleaned to avoid any contamination. A mesh/Jali is provided at the inlets to roof rain water pipes so that leaves or any other solid waste/debris is prevented from entering the recharge pit. An overflow pipe is provided in recharge chamber(s) to route the extra water.

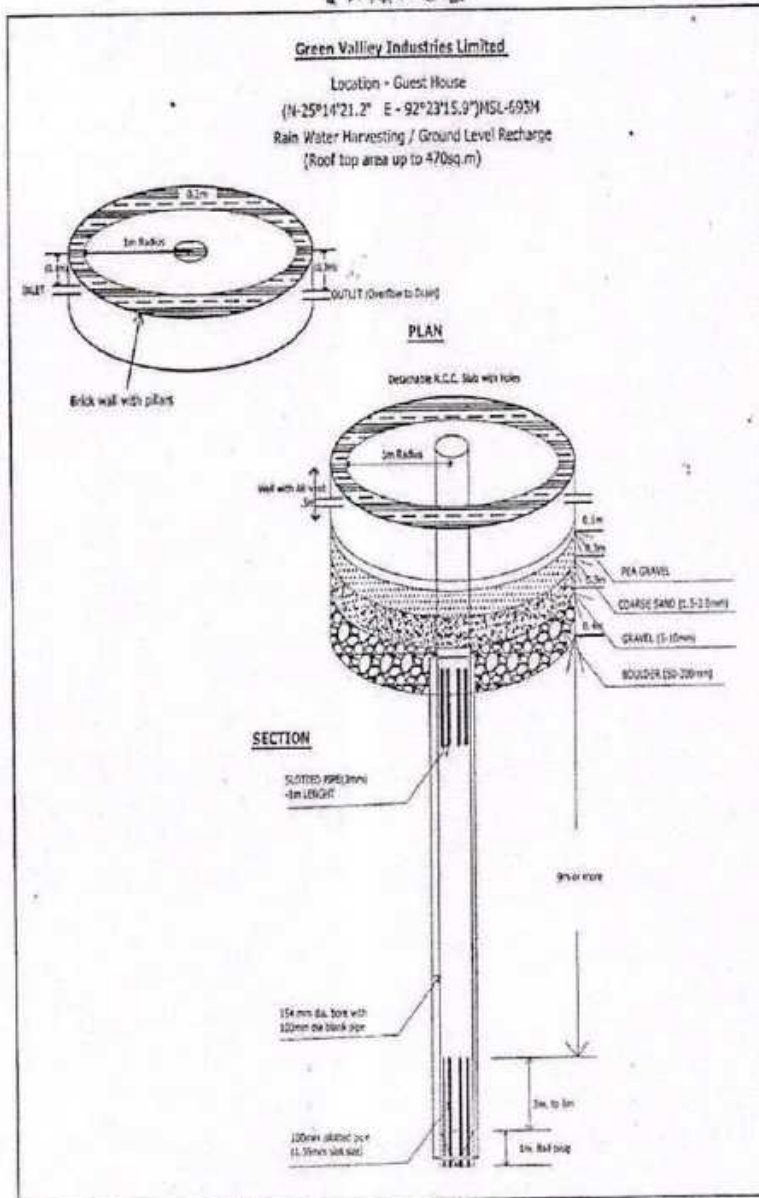
Based on site condition length and breadth of the recharge chamber is designed keeping its volumetric capacity as per requirement and RCC slab thickness and reinforcement is dependent on structural loads. Thickness of recharge chamber walls is 0.2 meter and its depth is 1.6 meter. Filter media of 1.1 meter thickness is in four layers comprising of 0.4 meter thick layer of boulders (50-200mm) at the bottom, 0.3 meter thick layer of gravels (5-10mm) in the middle and 0.3 meter thick layer of coarse sand (1.5-2.0mm) is at the top so that the silt content that will come with runoff will be deposited on the top and can easily be removed and 0.1 meter thick protective layer of pea gravels will be provided over the coarse sand layer of the filter media.

Moreover, recharge Chambers is cleaned before onset of monsoon season every year including removal, washing and relaying with topping up of the pea gravel and filter media layers whereas recharge chambers is checked and cleaned for smooth operation.



(6)

Annexure-2



Annexure-2

Green Valliey Industries Limited

AMD TANK



Annexure-3

Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya
"ARDEN" Lumpyngngad, Shillong - 792014
Website : <http://megspcb.gov.in>



No. MPCB/CL-9(A-III)/2024-2025/ 141

Dated Shillong the, 2nd August 2024

To,

✓ **Sh. Pawan Kumar Jishi,**
Asst. Vice-President,
Green Valley Industries Ltd.,
Nongring,
East Jaintia Hills District,
Meghalaya.

Recd on
dt. 17.8.24
31

Sub: Setting up of AQM stations-reg

Ref: Your letter No. CIVIL/FNV/MSPCB/2024-25/01 dated 4th July 2024

Sir,

With reference to the above, I am to inform you that the Board has no objection for setting up of AQM stations in your plant premises as per details stated below:

Sl.No.	Location	Co-ordinates
1.	Near Guard House	N-25°14'22.5" / E-92°22'16.0"
2.	Near Staff Colony	N-25°14'33.5" / E-92°22'27.4"
3.	Near Old DM Fleet	N-25°14'03.4" / E-92°22'37.5"
4.	Near HOD Colony	N-25°14'18.6" / E-92°22'55.0"

This is for your information and needful.

Yours faithfully

(Dr. G.H. CHYRMANG, MFS)
MEMBER SECRETARY
MSPCB, SHILLONG

No. MPCB/CL-9(A-III)/2024-2025/

Dated Shillong the, 2nd August 2024

Copy to:-

1. The Regional Office, NEHET & CC, RPR, Shillong, for favour of information.
e-mail: mofpr.shillong@yco.in
2. The Regional Director, Regional Directorate Shillong, Central Pollution Control Board, for information.
e-mail: rcshillong@cpwcb.org.in

MEMBER SECRETARY
MSPCB, SHILLONG

Contact Details: Email: information.mspcb@gov.in, megspcb@rediffmail.com; Telephone Numbers: Chairman-0364-2621217; Member Secretary-2622602; Scientific-2621174; Eng. wing-2621632; Legal-2626064; Laboratory-2621720; Administration-2620073; Accounts-2622124; Telefax-2621784



Annexure-4

o/c

Green Valley Industries Limited

CIN INC.: U26942ML2007PLC008273

No: GVIL/ 2017-18/TNV/42

14th September, 2017

To,

The Chairman,
Meghalaya Pollution Control Board
ARDEN, LUMPYNGAD, Shillong-793014,
Meghalaya.

Subject- Direction as empowered under section 5 of the Environment (prevention) Act, 1986.

Ref. No.MSPCB/LEGAL-93/2017/2017-18/35

Dear Sir,

With reference to letter subject cited above, we would like to inform you that we have approached to the entire concerned agency for providing us information on Refused Derived Fuel (RDF) with High calorific waste for our industries as feeding element, within the 100 KM area of the plant location.

This is for your information and record please.

Thanking You,

For Green Valley Industries Ltd.


Pawan Kumar Joshi

General Manager

Enclosure: Letter copy



Guwahati Office : 4th Floor, LB Plaza, G. S. Road, Shangpigarh, Guwahati - 781 005, T +91 361 2465481 / 82 / 85 / 84
Regd. Office and Plant : Vill. Nongoring, P. O. Chirahpui, PS. Khliehmat, Dist. Jaintia Hills, Meghalaya - 793 200
Group Corporate Office : 602 'LORDS' 7/1 Lord Sinha Road, Kolkata - 700 071, T +91 33 22827367 / 7368, F +91 33 22026307
E : info@greenvalley.com

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Annexure-5

Green Valley Industries Limited

CIN NO.: L28542ML2007PLC008273

Plantation Details at GVIL.

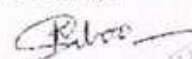
Location	Plantation area
Celery	54851.00 m ²
Old Magazine	2564.33 m ²
Admin Block	174.00 m ²
Behind CCR	220.00 m ²
HOD Block	90333.00 m ²
Behind Crusher	-----
Total Area (2017)	148062.30 m² = 14.81 ha
WED Plantation 5th June 2019:	
Behind Lin. Block	427.00 m ² = 0.043 ha
WED Plantation 5th June 2020:	
Near Panna house	511.43 m ² = 0.024 Ha
Founder's Day (13th August 2020) & Independence Day (15th Aug 2020)	
Near NH-6, HOD Road, near Airtel Tower and New Village road	3995.959 m ² = 0.4 Ha
Founder's Day (13th August 2021)	
Near Truck Parking lot	1156.500 m ² = 0.12 Ha
WED Plantation 5th June'22 & Founder's Day (13th Aug'22)	
Behind New Store, Temple and G-1 Building	246.738 m ² = 0.02 Ha
WED Plantation 2023	
Near HOD Park and Temple next	378.695 m ² = 0.04 Ha
WED Plantation 2024 (5th June'24) & Founder's Day (13th Aug'24)	
Near Row Mill and behind Guest House	1105.77 m ² = 0.11 Ha
Total Plantation Area	15.57 Ha

Updated by,



Loke Edithril,
Env. Executive

Verified by,



Kamalakanta Sahoo,
Deputy Manager

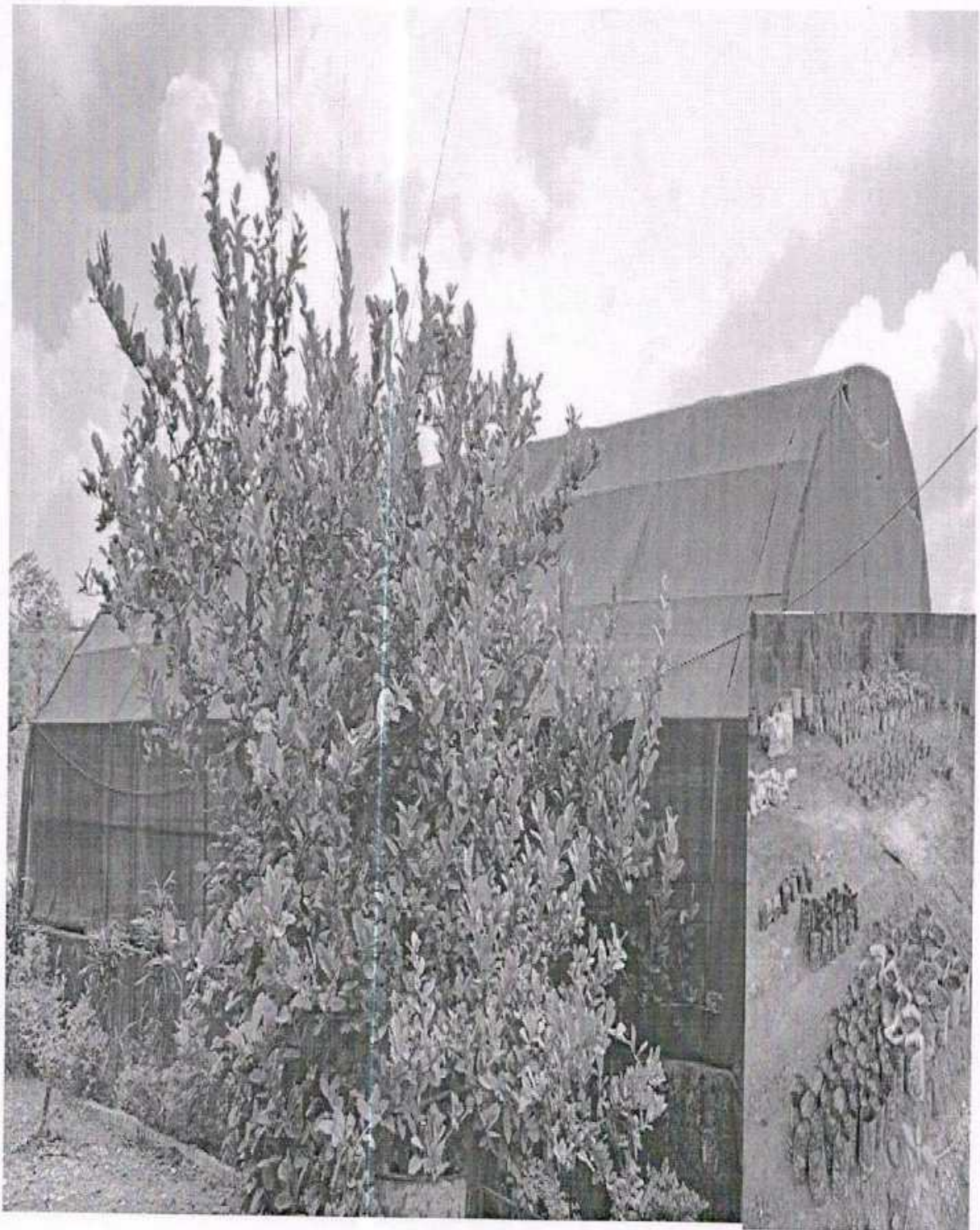


Guwahati Office: 4th Floor, LB Plaza, G-5, Road, Shangachary, Guwahati-781 005, T +91 361 2465481 / 82 / 83 / 84
 Regd. Office & Plant Village: Nongstien, Bakor, Sutnga, PO: Lunahong, District: East Jaintia Hills, Meghalaya-793210
 Group Corporate Office: 602 'LORDS' T/1, Lord Sinha Road, Kolkata-700 071, T +91 33 22927357 / 7358 F +91 33 22626307
 E : info@greenvalley.com

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Annexure-6



Annexure-7

Expenditure incurred for Socio-Economic Development

F.Y. 2021-22

PAID ON A/C OF	AMOUNT (RS.)
Elaka Sutnga	5,62,500
Nongsning Village	4,07,203
Chiehruphi Village	54,729
Lumshnong Village	1,00,000
Elaka Narpuh	50,000
Nongsning Village U.P. School	1,00,000
Garó Union Sec. School	1,00,000
Dustbin for Byndihati Village	1,20,000
Water Supply at Village	1,30,000
Const. of Boundary Wall at Sutnga Market	4,78,000
Plantation for Founders Day	62,050
Grocery for Child Orphan Home	38,548
Police Dept. Shillong for 8 Mojos	42,000
TOTAL	22,45,030

F.Y. 2022-23

PAID ON A/C OF	AMOUNT (RS.)
Elaka Sutnga	5,00,000
Nongsning Village Development	4,07,203
Lumshnong Village Development	1,00,000
Chiehruphi Village Development	54,729
Elaka Narpuh Village Development	50,000
Amount paid to Director for remuneration	1,50,000
North East India Mission Association	1,00,238
Music & Singing Committee Wahiajer Narpuh	10,000
Stipend for Mines work	8,000
Kyrmén Wahlang	1,50,000
Sutnga Sports Social & Cultural	25,000
Appreciation of Subroto Cup Runner's up, from RC Eve School	33,525
Developing playground for Sutnga Sports & Games	75,000
Fete for Nongsning Village	5,000
Const. of wall for Thyndai Child care Inst Cum counselling Care	2,50,000
Lumshnong Village development work	5,02,351
Financial assistance for self-employment generation	20,000
Donation of CGI sheets at Nongsning Vill. Due to Cyclonic Storm	31,850
TOTAL	24,72,896

F.Y. 2023-24

PAID ON A/C OF	AMOUNT (RS.)
Elaka Sutnga	5,25,000*
Nongsning Village Development	4,21,576*
Lumshnong Village Development	1,00,000*
Chiehruphi Village Development	56,465*
Elaka Narpuh Village Development	50,000*
Annual remuneration Nongsning vill U.P. School	1,00,000*
Water Supply at Village	1,30,000*
Financial assistance to Dorbar Shnong Nongsning	3,00,000
Sutnga Sports Social & Cultural Club	60,000
Meghalaya State Pollution Control Board on account of River rejuvenation.	3,00,000
Contribution of car stickers & jute pencil bags to MoEF&CC	62,776
Financial Support to 34th Grand Lympung of Seng Khihlang, Wahiajer	20,000
Sponsorship for 9th Sprint Challenge, EJAMSA	72,260
Construction of football field building at Chiehruphi	5,00,000
TOTAL	26,98,077



Annexure-8



DEPARTMENT OF CIVIL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

(An Institute of National Importance)

CECON THE CONSULTANCY CELL

P.O. - Silchar-788 010, Cachar (Assam) FAX 03842-224797 Telephone (HOD) 03842-242910

No. CECON/2018/60/F-2/43

Dated Silchar-09.05.2018

Ref. Letter No. Nil Dated 07.3.2018

Vetting Report of Pollution Control Unit at Max Cement plant, Green Valley Industries Ltd. at village Nongsning, East Jaintia Hills, Meghalaya

A team from NIT Silchar visited the Max Cement plant, Green Valley Industries Ltd. at village Nongsning, East Jaintia Hills, Meghalaya for the physical inspection for the pollution control units installed at the cement plant on 24th March 2018.

It was physically observed that all the pollution control bag filter bags installed in Coal Mill, Cement Mill, LS Crusher and Packing plant sections were functioning properly whereas the two major pollution control units required for Cement Plant specifically Electrostatic Precipitator (ESP) and Reverse Air Baghouse (RABH) were operating successfully.

Both ESP and RABH are supplied by Thermax Ltd. (Enviro Division), Pune and installed by Wachandnagar Industries Ltd. in the year 2008 – 2009.

The specification and capacity of Pollution Control devices is sufficient for arresting dust as per the design capacity of the Mills in the reference to manual.

(Dr Upendra Kumar)

M.T., FICER
MCE (Jadavpur University), PhD (IIT Kharagpur)
Specialization: Environmental Engineering
Associate Professor & Head of Department
Department of Civil Engineering
National Institute of Technology Silchar
NIT Silchar-788010, Cachar, Assam

Head of the Department
**Civil Engineering,
NIT Silchar - 10**

Annexure-9

Green Valley Industries Limited

CIN NO: U26942ML2007PLC006273

Date: 18th June, 2024

No: GVAL/ENV/SEIAA/SC/2024-23/01

To,

The Chairman,
State Environment Impact Assessment Authority,
Silver Lure Building, Lower Leclumera,
Shillong- 793001

Subject: Compliance of Environmental Conditions- for your intervention

Dear Sir,

As per the subject and the conditions under our EC No. SEIAA/PROJECT-1/2007, dated Shillong, the 28th March 2009, we request for your intervention in certain changes in conditions as stated below:

- a) The points under specific Condition No. xxvi, which states, "The project proponent shall ensure monitoring of biodiversity components at the interval of every five years by an independent expert agency to assess the impact of the project thereupon. The report shall be submitted to the monitoring agency." We have approached Wildlife Institute of India but have not received a proper response, thus requesting your kind office to suggest a compatible party from whom we can carry out the said condition or if modifications can be made to comply with the same.
- b) General Condition No. ix stating, "The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the monitoring agency. Within six months of issue of prior Environment clearance." We seek guidance and advice from your kind office to suggest a compatible party from whom we can carry out the said condition to comply with the same.

We look forward to your kind guidance and advice for the above mentioned conditions. Thanking you for your unwavering support at all times.

Yours Sincerely

For Green Valley Industries Limited,

Authorized Signatory
Rajan Kumar Joshi
(Asst. Vice President)



Enclosed: EC copy, EC No. SEIAA/PROJECT-1/2007, dated Shillong, the 28th March 2009.



Guwahati Office: 4th Floor, LB Plaza, G.S. Road, Bhānagarah, Guwahati 781 005, T +91 361 2486481 / 82 / 83 / 84
Regd. Office & Plant: Vili, Nongstang, P.O. Chietruphi, PS. Khieriat, Dist. Jaintia Hills, Meghalaya-793 200
Group Corporate Office: 602 'LORDS' 7/7, Lord Shaha Road, Kolkata-700 071, T +91 33 2282736 / 7368 F +91 33 22828307
E : info@greenvalley.com

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Annexure-10



(24)
Meghalaya State Pollution Control Board
Forests & Environment Department, Government of Meghalaya
'ARDEN' Lumpyngngad, Shillong-793014
Website: <http://megapcb.gov.in>



Nº: MSPCB/ATH-34/2011/2021-2022-4

Dated Shillong, the 7th Feb, 2022

FORM - 2 [See Rule 6(2)]

FORM FOR GRANT/RENEWAL OF AUTHORIZATION BY MEGHALAYA STATE POLLUTION CONTROL BOARD, SHILLONG FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF HAZARDOUS WASTE UNDER THE HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016

M/s Green Valley Industries Limited of Village Nongsning, East Jaintia Hills District, Meghalaya is hereby granted / renewal of the Authorization to operate a facility for collection, storage and disposal of hazardous waste on its premises situated at Village Nongsning, East Jaintia Hills District, Meghalaya with reference to Application No. GVII/MSPCB/HW/2021-22/05, Dtd: 28/01/2022.

The Authorization is granted / renewed to operate a facility for collection, storage and disposal of hazardous waste in accordance to the hazardous waste management matrix as specified below:-

HAZARDOUS AND OTHER WASTE MANAGEMENT MATRIX

	Hazardous Waste	Quantity	Collection	Reception	Treatment	Transport	Storage	Disposal
I	Used/ Spent Oil	29.79 KL/A	✓	X	X	X	✓ Leak proof containers	✓ Recycling within the plant premises Sale/auction to registered recycler/refiner

The Authorization shall be in force for a period of 5(five) years, i.e., from 1st February, 2022 upto 31st January, 2027.

The Authorization is subject to the conditions stated below and such conditions as may be specified in the Rules for the time being in force under the Environment (Protection) Act, 1986.

TERMS AND CONDITIONS:

1. The Authorization shall comply with the provisions of the Environment (Protection) Act and Rules made there under.
2. The Authorization shall be produced for inspection at the request of an officer authorized by the Meghalaya State Pollution Control Board.

Contact details: Email: membership@meg.gov.in, mgspcb@rediffmail.com; telephone Numbers: Chairman-0364-2521711; Member Secretary-2522007; Scientific-2521514; Engineering-2521533; Legal-2520044; Laboratory-2521726; Administration-2520073; Accounts-2522724; Telefax-2521764.



Annexure-11



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



No. MPCB/ATH-34/2011/2021-2022/23

Dated Shillong, the 7th Feb, 2022

FORM - 2 [Sec Rule 6(2)]

FORM FOR GRANT OF AUTHORIZATION BY MEGHALAYA STATE POLLUTION CONTROL BOARD, SHILLONG FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF DISPOSAL FACILITIES FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT, DISPOSAL & CO-PROCESSING OF HAZARDOUS & OTHER WASTE UNDER THE HAZARDOUS & OTHER WASTE (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016

M/s Green Valley Industries Limited of Village Nongsning, East Jaintia Hills District, Meghalaya is hereby granted of the Authorization to operate a facility for Collection, Reception, Storage & Co-Processing of Plastic Waste, Saw Dusts, Bamboo Chips, Tyre Chips and Rice Husk on its premises situated at Village Nongsning, East Jaintia Hills District, Meghalaya with reference to Application No. GVIL/MSPCB/HW/2021-22/06, Dtd: 28/01/2022.

The Authorization is granted to operate a facility for Collection, Reception, Storage & Co-Processing of Non-Hazardous Waste in accordance to the hazardous waste management matrix as specified below:-

WASTE MANAGEMENT MATRIX

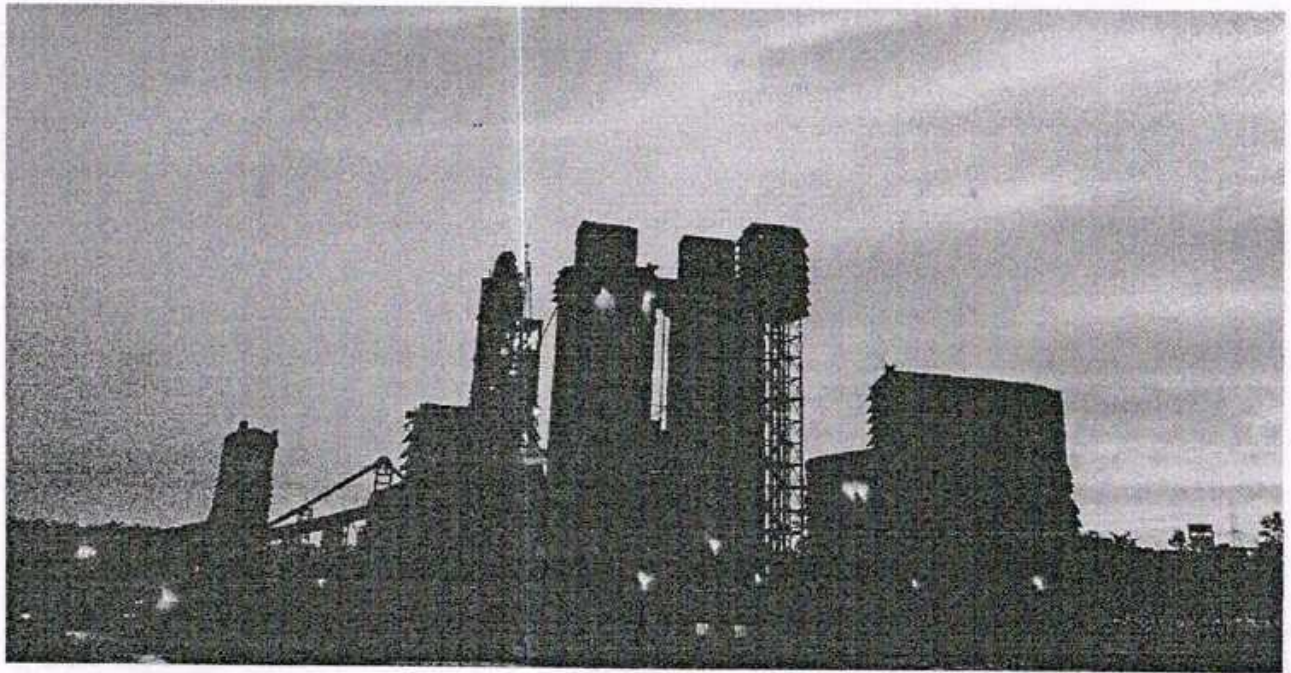
Sl. No.	Non-Hazardous Waste	Quantity in Tonnes per Annum	Collection	Reception	Storage	Co-Processing
1.	Plastic Waste	6,000				
2.	Saw Dusts	3,000				
3.	Bamboo Chips	5,000	✓	✓	✓	✓
4.	Tyre Chips	10,000				
5.	Rice Husk	5,000				

The Authorization shall be in force for a period of 5 (five) years, upto 28th February 2027.

The Authorization is subject to the conditions stated below and such conditions as may be specified in the Rules for the time being in force under the Environment (Protection) Act, 1986.



GREEN VALLIEY INDUSTRIES LTD



Plan for Eco-Development Measures and Community Welfare Measures

August 2025

Report prepared by:

Dr. Meghali Baruah

Department of Geology

School of Human and Environmental Sciences

North-Eastern Hill University, Shillong



ACKNOWLEDGEMENT

I am thankful to the management of Green Valley Industries Limited for entrusting me with the important task of developing and compiling the "Plan for Eco-Development Measures and Community Welfare Measures". I would also like to thank the GVIL Vice President, Shri Pawan Kumar Joshi, for his cooperation and assistance in gathering data about the EIA Report, EMP, EC letter, etc., of the plant. Shri Arvind Kumar Jindal and Shri Jogi Agarwal of GVIL are also thanked for their assistance during the site visits to their cement plant. The Headman, villagers, and School Teachers of the villages are also thanked for their cooperation during the site visits. I would also like to thank the Head and Dean, Department of Geology and School of Human and Environmental Sciences, NEHU, for the constant encouragement and support.

Effective implementation, periodic monitoring, management, and so on are required to get on the right track to success. I hope that the Plan has a tangible impact in the area in terms of biodiversity conservation and improvement of livelihood/ income of the local people and will go a long way towards achieving the stated objective and purpose.

1. INTRODUCTION

M/s Green Valliey Industries Ltd. (GVIL) has established an Integrated Cement Plant at Nongsning Village, P.O. Khliehriat, in the East Jaintia Hills District of Meghalaya. Before the commencement of construction, GVIL obtained Environmental Clearance (EC) in accordance with the regulations of the State Environment Impact Assessment Authority (SEIAA), vide EC No. SEIAA/PROJECT/-1/2007, on 28th of March 2009. The clearance was granted for the establishment of an integrated cement plant with a capacity of 1300 TPD, expandable up to 2600 TPD. The cement plant is now operational. As stipulated under General Condition No. X of the Environmental Clearance issued by SEIAA, the company is required to undertake Eco-Development Measures, including initiatives aimed at Community Welfare and Environmental Sustainability.

Equipped with advanced mechanical, electrical, instrumentation, and automation systems, along with a sophisticated Programmable Logic Controller (PLC), GVIL ensures stable and efficient plant operations. These technologies enable the plant to consistently achieve its rated capacity while maintaining high standards of product quality and grade uniformity. To control dust emissions within permissible limits, the plant is fitted with reverse jet bag filters at transfer points, bag houses for the kiln and raw mill, and Electrostatic Precipitators (ESPs) replacing cyclones in the coolers. GVIL produces four main types of cement: Portland Pozzolana Cement (PPC), OPC 43 Grade Cement, OPC 53 Grade Cement, and Max Power Plus Cement.

Eco-development refers to a development approach that harmonizes social, economic, and environmental objectives. It adopts a multidisciplinary and multi-stakeholder framework that links the conservation values of protected areas (PAs) with the livelihoods and development needs of local communities in adjacent landscapes. The success of such initiatives depends on planners' ability to comprehend complex conservation challenges and integrate them effectively into the planning process. A key challenge involves identifying, engaging, and empowering stakeholders, particularly local communities in the design and implementation of integrated conservation and development programs. Therefore, eco-development planning must be undertaken at the grassroots or village level. Its implementation typically follows a structured process comprising planning, institutional framework development, transitional phase planning, financial arrangements, and site selection criteria.

Furthermore, Community Welfare Measures refer to initiatives aimed at ensuring that all members of society can meet their fundamental human needs. These measures provide

financial and social support to individuals and families with low income, recipients of social welfare benefits, or those affected by emergencies. Community welfare initiatives typically encompass services in healthcare, education, housing, employment, and poverty alleviation, thereby fostering inclusive social and economic well-being.

OBJECTIVE

The main objective of this Action Plan is to assist M/s Green Valliey Industries Limited to help the local authorities in the identified villages:

- (a) Develop an Eco-Village Development Plan outlining specific, actionable activities, and
- (b) Assist the Village Dorbar (traditional institution) in implementing Community Welfare initiatives supported by GVIL through financial assistance and capacity-building programs.

METHODOLOGY

Field visits were undertaken to M/s Green Valliey Industries Ltd. (GVIL) in the East Jaintia Hills District, Meghalaya, as well as to nearby villages. The purpose of these visits was to assess local environmental conditions and understand the needs and priorities of the surrounding communities. Discussions were held with GVIL officials, village headmen, and local residents to gather insights and perspectives.

To evaluate GVIL's commitments toward environmental protection and management, key documents such as the Environmental Impact Assessment (EIA), Environmental Management Plan (EMP), Environmental Clearance (EC), Consent to Establish (CTE), and Consent to Operate (CTO) were reviewed. Additionally, selected villages were visited and assessed to identify areas requiring support, which have been incorporated into the proposed Plan for Eco-Development and Community Welfare Measures.

STUDY AREA

The village covered under this study is Nongsning, which can be regarded as a project-affected area. To design suitable activities under the Eco-Development and Community Welfare Measures, a structured survey format was employed to evaluate the existing facilities and infrastructure within the village. The ecological, social, and economic conditions of Nongsning Village are summarized in Table 1 below.

Table 1. Salient feature of facilities available in studied villages

Sl. No.	Parameter	Surveyed Village
		Nongsning
1.	Total households	130
2.	Average family member	4
3.	Main Occupation	Service/ farmer
4.	Cultivation (in %)	60
5.	Service (in %)	25
6.	Shops (in %)	1
7.	Labour (in %)	15
8.	School	i. Nongning Govt LP School, ii. Nongsning Upper Primary School iii. Shynriang LP School. (SSA Govt. School) iv. Hinidian Memorial School.
9.	Health Centre	
10.	Market	Nil
11.	Electricity	MeECL
12.	Water	Natural Stream
13.	Toilet	Yes
14.	Type of house	Tribal & Assam Type
15.	Village forest	Nil
16.	Sacred forest	Nil
17.	Protected forest	Nil
18.	Private forest	Nil

REVIEW OF ENVIRONMENT IMPACT ASSESSMENT (EIA)

The EIA study was conducted by M/s Global Experts, C23, BJB Nagar, Bhubaneswar -14. The land owned by GVIL is 52.91 ha, according to the EIA Report. For an integrated cement plant of 1300 expandable to 2600 TPD and a 2X10 Captive Coal-based Thermal Power Plant, on a plot of 40 ha allotted. According to the EIA Report, only localized construction-related effects are anticipated to have a significant impact on the soil in the immediate vicinity. The following are important points recorded in the EIA that relate to biodiversity conservation:

i. IMPACT ON LAND USE: In the surrounding areas owned by GVIL, there are no nearby forests or wildlife sanctuaries. However, Grass, bushes, and a few trees cover the area. No endangered or rare species are recorded or observed in the study area. Also, there is no significant aquatic body within the study area.

ii. DUST AND NOISE POLLUTION: Dust is generated through emissions, handling, spillage, leakages, jamming, etc., at every stage of cement manufacture, starting with the quarrying of the major raw material, limestone, and ending with the packing and dispatch of cement from the plant. In cement plant noise is generated by machinery, such as crushers, grinding mills, fans, blowers, compressors, and conveyors. The noise levels emitted in cement plants is known to vary in general from 65 to 90 dB (decibels). The standards for noise levels prescribed for the Indian industry are 70 to 75dB. The plant and equipment inside the plant contribute within the permissible limit of Ambient Noise outside and within the factory premises. All precautionary measures have been taken to minimize the noise level inside the plant area. The rotating equipment mounted on anti-vibration pads is regularly maintained so that the resultant noise level is not more than 70 to 75dB. The present traffic density nearest to the site on NH 50 is 300 per hour, including all types of vehicles. The transportation vehicles are regularized and allowed in such a manner so that their existence does not disturb the routine traffic. Blowing of horns is prohibited in and around the parking area.

iii. EFFLUENT WATER: As the cement plant is based on the dry process, no effluent water is generated. Water is mainly used in closed circuits at certain stages in the process, like in cement and raw mills. All the process water is recycled. All blow-down water from auxiliary

cooling tower basin, system leakage water through equipment overflow drain (EOD) etc. were channelized to a common sump. Domestic wastewater is being treated by STPs (Sewage Treatment Plants) and ETP (Effluent Treatment), before being discharged and reused for sprinkling of roads and reutilised in plantations.

iv. SOLID WASTE: There is little to no solid waste generation in the proposed plant. Rejected materials like packaging material, steel scrap, used tires, etc., are scientifically disposed of (consumed in Kiln) or sold off to authorised recyclers. There is no Fly ash generation from the CPP as it will not be installed.

v. FLORA AND FAUNA: There is no forest area or wildlife sanctuary in the study area. The site is covered with grass, bushes & few trees. No endangered or rare species are reported or observed in the study area. Also, there is no significant aquatic body within the study area.

REVIEW OF ENVIRONMENTAL MANAGEMENT PLAN (EMP)

The EMP consists of mitigation measures for activity during the construction, operation, and the life cycle to minimize adverse environmental impacts of the project. It also delineates the environmental monitoring plan for compliance with various environmental regulations. The project has to carry out the control measures for air pollution by installing an air pollution control system and installing of sewage treatment plant (STP) and plantation programme.

i. POLLUTION CONTROL MEASURES: During the construction phase, effective mitigating measures need to be adopted to reduce the primary impact on the air environment to a minimum. These include effective water sprinkling over the transport roads (especially unpaved) and over the areas where loose materials (including earthworks) are handled (excavated, loaded, and unloaded), which reduces the pollution due to dust. The machinery used in construction needs to be well-maintained, regularly overhauled, and tuned, which prevents air pollution due to exhaust emissions. In this way, air pollution during construction is negligible and remains well below the prescribed limits CPCB/SPCB. In order to control air

pollution systems like Fly Ash systems with ESPs, dust suppression systems with water sprinkling, spraying and ventilation systems have been provided. The main stacks emitting most of the SPM emission are given in Table 2 along with the proposed air pollution control equipment.

Table 2: Stack name, height, diameter and type of pollution control equipment installed.

Sl. No	Stack Name	Height (m)	Dia (m)	SPM control equipment
1.	Clinker cooler	40	2.6	ESP
2.	Limestone Crusher	20	0.8	Bag house, Cyclone Separator
3.	RABH (Kiln & Raw mill)	87	3.4	Bag Filter
4.	Coal Mill	44.7	1.35	Bag house, Cyclone Separator
5.	Cement Mill	40	1.2	Bag house, Cyclone Separator

ii. FUGITIVE EMISSIONS: It is proposed to cover the trucks loaded with raw material by tarpaulins to prevent the material from becoming airborne during transportation. It is also proposed to sprinkle water over the roads (especially unpaved) to prevent dust from becoming airborne as a result of tyre road interaction in and around the plant area. Bag filters are being installed at all material transfer points and material conveying systems-air slides, bucket elevators, etc. Belt conveyors are being used for stacking the crushed limestone to reduce the falling height and hence to reduce dust generation. Gypsum and coal will be received in wet condition; hence, they will not require any specific control measures. All raw material storage and conveyors will be covered.

iii. ECOLOGY:

a. PLANTATION PROGRAMME: An Extensive plantation programme will be carried out inside the plant area, which will help in controlling air pollution and also in providing a green area and shelter for various faunal species. The plantation will cover more than 1/3 of the plant area. Special care will be taken while planting trees (local species), as regards the type and the number, within the plant premises, in order to confine the pollutants to the area and prevent their dispersal. To reduce the impact of air pollution, particularly the SPM content, it has been

proposed to create and maintain a green belt around the plant. The total green belt envisaged is 17 ha, out of which 15.69 ha have already been planted. Plantation will be carried out within the premises of the plant where fugitive dust emissions are anticipated. Lawns and gardens will also be created near the office areas and other service areas like canteens, parking lot, etc.

b. WILDLIFE CONSERVATION PROGRAMME: Visualizing and interviewing many local residents of nearby villages helps to prepare the list of animal diversity. Due to the ban on poaching, many animals have shown an increasing trend. No Schedule 1 species have been observed in the study area. There are no threatened species of plants. No special measures are required except that the employees, as well as the population of surrounding villages need to be educated for conservation and protection of the wildlife through specially arranged camps and continuous campaigns through posters at prominent places.

REVIEW OF PROJECT BENEFITS AS MENTIONED IN EIA REPORT

The project, coupled with the ancillary industries, would contribute to the overall socio-economic development of the region.

a. DIRECT BENEFITS: Income tax from

- (i) Individuals as well as corporate taxes from cement company and ancillary units,
- (ii) Income by way of registration of trucks,
- (iii) Payment of road tax and payment of tax for interstate movements,
- (iv) Cess on power generation,
- (v) Royalty/ cess/ minerals used in plant, and
- (vi) GST.

b. INDIRECT BENEFITS: The project has an employment generation prospect on skilled manpower. It is assumed that the generation of indirect employment would be multiple of direct employment. Most of the workforce required for the construction and operation of the project will be drawn from the surrounding villages. During the construction phase, no family is required to rehabilitate from the core zone. With the establishment of a colony, not only will there be a requirement of food and commodities but also service providers such as requirement of gardeners, sweepers, maintenance people etc. The direct beneficiaries in this process would be the local producers and Significant positive impact on employment and occupation is

envisaged on account of the better economic status of the community due to better earnings. Higher inputs towards infrastructural facilities due to the establishment of plant and colony. Enhancement of literacy due to educational facilities available in township. The general social development of the area is expected due to the improvements in the infrastructure and communication system. New facilities will be created to meet growing demand of the population. This will have an impact on the current literacy level, primary and middle level education, businesses and on the existing health facilities. Awareness generated will have positive impact on the social pattern, which is caste and community oriented. The long-term implications of this change are progressive.

c. SKILLED EMPLOYEES AND THE MANAGERIAL/ SUPERVISORY PERSONNEL:

Due to the cement plant project, including the CPP, there will be development of communication facilities in the area. In the plant area, accommodation has been planned for the skilled/ semi-skilled personnel, and they will be equipped with sufficient infrastructural facilities, including drinking water, toilets, sanitation facilities, health centre etc. During operation, the plant will generate direct employment. The preference will be given to the local population for employment in the semi-skilled and unskilled categories. Indirect employment is created by the plant for the supply of daily domestic goods. A permanent supply of electricity in the area will support daily domestic goods. Housing accommodation for 60% of total manpower is proposed, whereas employees from local villages commute from their own homes.

d. SOCIAL WELFARE MEASURES AND CORPORATE RESPONSIBILITY:

The Company has already earmarked funds for social development and welfare measures in the surrounding villages. These measures will include dunging for: Medical camps, Women and child development programs, drinking water availability efforts if needed for the local people, Awareness programs, repair and improvement of existing schools, repair and improvement of health centres, repair and improvement of community centres, building such as Panchayat halls, Barat gears etc., competitions and prize distribution.

e. CORPORATE RESPONSIBILITY: The management of GVIL has a strong belief in business development along with peripheral development of nearby areas to the project site. Peripheral development plan including development in infrastructure, health, education and socio-cultural aspects being carried out are as follows: The company has one dispensary with qualified doctors and nursing staff, where free medicines and treatment to the employees and local villagers is provided. The company has provided an ambulance on free cost for the benefit of the villagers. The company has provided free cement and donations to NGOs, churches and constructions in the surrounding villages. Cement at discounted rate shall be provided to the villagers for the purpose of house construction etc. The company shall organize free medical camps for the benefit of the villagers. The company shall assist in all cultural activities which shall be organized on important occasions by the local villagers. The company shall build a children park for the benefit of employees and villager's children. The company shall construct a community hall with required infrastructure like chairs, audio system, orphanage, houses, etc.

REVIEW OF ENVIRONMENTAL CLEARANCE (EC) CONDITIONS

Following are EC conditions which mandated the project proponent to implement for the protection of the environment and conservation of biodiversity:

i. Specific Condition No. ix , x and xi. Adequate chimney height as per CPCB guidelines shall be provided to TPP to control emissions with continuous online monitoring system. To monitor gaseous emissions from all the stacks shall be provided. The limit of SPM from all sources shall be controlled within 30 mg/Nm^3 by installing adequate air pollution control system. Electrostatic precipitators (ESP) to clinker cooler and power plant and bag house to raw mill and kiln, coal mill, cement mill, packing plant and crusher shall be provided to control emissions within 30 mg/Nm^3 . Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit is shut down automatically.

ii. Specific Condition No. xii. Efforts shall be made to reduce the impact of the transport of the raw materials and end product on the surrounding environment, including agricultural land. All the raw materials, including fly ash shall be transported in closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored.

iii. Specific Condition No. xiv. Water requirement not to exceed 1,220 m³/day. A sewage Treatment Plant of 80 m³/day capacity to treat domestic sewage and treated water shall be utilized for green belt development. No wastewater shall be discharged outside the premises, and zero discharge shall be ensured. Surface water restricted to a maximum of 1,220 m³/day shall be drawn from a perennial stream (Umtiling) flowing nearby and no surface runoff from the premises shall either each/ contaminate Um-lunar river or any other stream flowing at a site situated to the west of the industrial location.

iv. General Condition No. iii and iv. All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Closed pneumatic system should be used for transport of fine material for further utilization in cement manufacturing. Authorisation to be obtained from MSPCB for collection, treatment, storage and disposal of hazardous waste. Wastes shall be sold to authorized recycling vendors and sewage sludge shall be used as manure.

v. Specific Condition No. xix. Green belt shall be developed in an area of 17 ha (33%) out of 52.91 ha. area in and around the cement plant as per the guidelines of CPCB to mitigate the effects of air emissions.

vi. Specific Condition No. xiii. The locations of ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Meghalaya State Pollution Control Board (MSPCB) and additional stations shall be installed, in the downwind direction as well as where maximum ground level concentrations are anticipated. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry, including its Regional Office at Shillong and Meghalaya State Pollution Control Board, once in six months.

vii. Specific Condition No. v. The treated effluents shall be re-circulated and reused within the plant area. There shall be no wastewater discharge outside the plant boundary.

viii. General Condition No. vi. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures such as acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986, Environment (Protection) Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime)

ix. Specific Condition No. vi. Rainwater 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 and a copy of the same shall be submitted within six months to the monitoring agency.

x. General Condition No. x. A separate Environmental management cell equipped with full-fledged laboratory facilities as detailed by the project proponent shall be set up to carry out the Environmental Management and monitoring functions

PLAN FOR ECO-DEVELOPMENT MEASURES

Based on the review of the EIA Report, it has been determined that the necessary measures for environmental protection and conservation have already been incorporated. These provisions cover aspects such as control of fugitive emissions, wildlife conservation programs, treatment of effluent water, solid waste management, preservation of flora and fauna, and other pollution control initiatives. Further examination of the Environmental Clearance (EC) conditions indicates that GVIL is required to regularly monitor stack emissions, ambient air quality, ambient noise levels, and water quality, along with undertaking green belt development and ensuring regulated transportation of raw materials. However, these environmental protection and conservation provisions primarily apply within the plant's operational boundaries and do not extend beyond the premises.

GVIL has prepared a detailed plan for green belt development covering a total area of 17 hectares. As stipulated under General Condition No. IX of the EC, the company must also implement Eco-Development Measures within the broader project area. Since adequate environmental safeguards have already been proposed within the plant premises as part of the EIA, EMP, and EC, the Eco-Development Plan is designed to be implemented outside the plant boundary to benefit the surrounding environment and local communities.

Based on the above observations, the following Plan for Eco-Development Measures is proposed:

- i. On every Environmental Day, GVIL shall collaborate with school management authorities to organize plantation programs for developing green belts within school campuses in Nongsning Village (Refer to Table 1). If necessary, GVIL will also support the construction of boundary walls and improvement of related school facilities.

- ii. GVIL shall undertake additional plantation activities in available spaces along roadsides, playgrounds, and other community areas within the studied villages, in consultation with the respective Village Durbar.
- iii. The responsibility for maintaining the developed plantations will rest with GVIL, in collaboration with school management committees or the village headmen, as applicable.
- iv. During the dry season, GVIL shall establish fire lines in areas identified as fire-prone and conduct assisted plantations in open or degraded sections of village forests to promote restoration.
- v. Each year, on World Environment Day, GVIL shall organize awareness programs or seminars on environmental conservation and sustainability, involving technical institutions and representatives from the project-affected villages.

Note: The Plan for Eco-Development Measures should be implemented first in Nongsning Village during the year 2025 and continue progressively over the five-year period from 2025 to 2029.

PLAN FOR COMMUNITY WELFARE MEASURES

In terms of economic benefits, the EIA Report clearly highlights the project's potential to contribute substantially to the socio-economic development of both the region and the state. The direct benefits arise from several sources, including income tax from individuals and corporate entities, revenue from registration of transport vehicles, payment of road and interstate movement taxes, cess and royalty on minerals, and Goods and Services Tax (GST) collection. Indirect benefits primarily relate to employment generation, particularly for skilled and semi-skilled manpower in the region. The project is expected to have a significant positive impact on local employment and occupation patterns, thereby improving the economic status of surrounding communities through enhanced earning opportunities. The establishment of the plant and residential colony will also lead to greater investment in local infrastructure, boosting overall regional development. Enhanced connectivity and improved communication networks are anticipated to promote general social advancement across the area.

The company has already allocated dedicated funds for Social Development and Welfare Measures in the nearby villages. These initiatives include organizing medical camps, implementing programs for women and child welfare, providing access to clean drinking water, conducting awareness campaigns, and undertaking repairs and improvements of schools, health centers, and community buildings. GVIL also actively carries out Corporate Social Responsibility (CSR) activities in the project's surrounding areas, focusing on peripheral development such as infrastructure enhancement, healthcare, education, and socio-cultural growth.

The following Plan for Community Welfare Measures are proposed to improve livelihoods and skill development as under:

- i. GVIL shall support and fund training programs in beekeeping, piggery, poultry farming, goat rearing, handicrafts, and broom-making for unemployed youth to promote sustainable income-generating activities.
- ii. GVIL shall fund vocational training programs for young women in tailoring, embroidery, beauty care, and computer skills to improve their employability and self-reliance.
- iii. Advanced training sessions on financial management shall be organized to strengthen the economic literacy and bargaining capacity of unemployed youth in a market-driven economy.
- iv. Leadership and team-building workshops shall be conducted to promote human resource development and community empowerment.
- v. The specific number of unemployed youth to be selected from each studied village shall be determined annually, in consultation with the respective village headmen, based on the availability of GVIL's allocated funds for Eco-Development Measures in each fiscal year.

NB. The Plan for Community Welfare Measures should be implemented in Nongsning Village during the year 2025, 2026, 2027, 2028 and 2029.

CONCLUSION

Effective implementation of the proposed Eco-Development Plan will contribute significantly to enhancing the green cover of the area through systematic afforestation, habitat restoration, and sustainable land-use practices. These efforts will not only improve the ecological balance but also foster greater environmental awareness among local communities regarding the importance of conserving forests, wildlife, and natural resources. Capacity-building programs, awareness campaigns, and community-based conservation initiatives will further motivate residents to participate actively in protecting and managing their local environment.

Similarly, the successful execution of the Community Welfare Measures will directly benefit the socio-economic well-being of the people residing near the project site. By supporting livelihood enhancement programs, vocational training, healthcare initiatives, educational support, and infrastructure development, these measures aim to create opportunities for sustainable income generation and improved living standards. Collectively, these initiatives will strengthen community resilience, promote inclusive development, and establish a long-term partnership between GVIL and the surrounding villages based on mutual growth and environmental stewardship.