

# Green Valliey Industries Limited

CIN NO.: U26942ML2007PLC008273

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*Send for Plant  
on 21/7/16  
at Shillong*

To

Date-5<sup>th</sup> July, 2016

The Joint Director (s)

Ministry of Environment & Forest

North Eastern Regional Office, Shillong

Sub: Status of Compliance of Environment Stipulations –Regarding

Sir,

With reference to above, enclosed, please find herewith the details status of compliance of Environment stipulations as set by SEIAA for the period 01.12.2015 to 31.05.2016, for your kind information and record please.

Thanking you,

Yours Sincerely

For Green Valliey Industries Ltd.

*[Signature]*  
Authorized Signatory

Encl.

1. Status of compliance report 01.12.2015 to 31.05.2016
2. AAQ Monitoring report
3. Stack Monitoring report
4. Ambient Noise level report



CC: To Member Secretary, MSPCB, Shillong



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A GNG GROUP COMPANY

**STATUS OF COMPLIANCE OF ENVIRONMENT STIPULATIONS AS SET BY SEIAA FOR M/S GREEN VALLIEY INDUSTRIES LTD. FOR THE PERIOD ENDING 1<sup>ST</sup> December, 2015 TO 31<sup>ST</sup> May, 2016**

**Introduction:-**M/S Green Valliey Industries Ltd. was given environmental clearance for construction of an integrated cement plant of 1300 TPD expandable to 2600 TPD along with 2x10 MW captive power plant at village Nongsning, Chiehruphi, Jaintia Hills, Meghalaya on 28<sup>th</sup> March, 2009.

**STATUS OF COMPLIANCE OF ENVIRONMENT STIPULATIONS:**

Sl. No.	Conditions	Status
i	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.	Water Tanker is been used on regular basis for water sprinkling, from main road to plant area.
ii	Water requirement shall be met from the existing water source which would be restricted to 1220 m <sup>3</sup> /day. No ground water shall be extracted for the DG set at any stage	Water Consumption is below our requirement and No ground water is being extracted. The consumption report is being submitted to MSPCB monthly.
iii	Closed cycle cooling system with induced draft cooling towers shall be provided for the DG set.	Have been provided.
iv	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 water used for plant operation are re-circulated and reused, through water cooling tower.
v	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.	We have approached Central Ground Water Authority vide our letter dated- GVIL/ENV/2009/359. GVIL/ENV/2005/12 and GVIL/ENV/2016-17/004. Once we receive the plan, the same will be implemented
vi	Leq of noise level in the DG set premises shall be limited to 75dBA 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 equipments that have potential to contribute to noise pollution.	DG set is not working from February, 2011 .Personal protection devices is being used by all the workers working in high noise area.
vii	A stack of appropriate height shall be provided with continuous on-line monitoring system in respect of DG set considering the dispersion sensitivity and geographical location of the plant. The data collected shall be analysed and submitted regularly to the Meghalaya State Pollution control Board and SEIAA.	A stack of 48m height has been provided.

viii	The stack emission from various sources shall not exceed 50mg/Nm <sup>3</sup>	This has been carried out strictly
ix	Bag house/filters shall be provided to control the fugitive emissions during loading and unloading of raw materials/intermediate and finished products	Have been done.
x	The project proponent shall store all the raw materials except limestone in covered sheds to control fugitive emissions. The coal storage facility should have water sprinkling facility in order to arrest fire hazard, if any.	Raw materials are kept in covered shed. Proper care is being taken in order to avoid any fire hazard.
xi	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 approached MSPCB vide our letter GVIL/ENV/2015-16/005. The same will be done by consulting with MSPCB.
xii	Total water requirement shall not exceed 1220 m <sup>3</sup> /day. The project authorities shall install sewage treatment plant of minimum 80 m <sup>3</sup> /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 <sup>3</sup> /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 level. STP will be provided once the residential/ staff colony is set up. Septic tanks have been provided.
xiii	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.	Material for use of High Calorific value hazardous waste is not available around the plant area.
xiv	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.	We have already procured two mining land one in Chiehruphi area and another in Lumshnong area. File has been forwarded to the respective department for approval.
xv	The project proponent shall transport raw materials and industrial products through covered means.	Being carried out.
xvi	The project proponent shall secure a certificate from the Principal Conservator of Forests, Meghalaya that the core	Certificate from PCCF, Meghalaya under process with

	project area is a non-forest land within 3 months of issue of prior Environmental clearance.	state government.
xvii	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.	Green belt development is under progress.
xviii	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.	Health Centre already functioning with company appointed Medical Officer with trained lab technician, nurse and helper. Health register is being maintained.
xix	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.	Work in progress.
xx	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.	We have approached Botanical Survey of India to guide us in this regards vide our letter dated- GVIL/ENV/2009/109 And GVIL/ENV/2016/14 Once the same is being received it will be implemented.
xxi	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 atleast 3 years.	Will be done.
xxii	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.	Experts from Centre for biodiversity and natural resources conservation, Assam University had visited the campus.
xxiii	A sum of Rs. 2302 lakhs (being 9% of capital cost of	We are spending Rs. 15 Lac per

	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.	year towards economic development of the area. The details of the same have been submitted vide letter No. GVIL/ENV/2015-16/010
Xxiv	The pollution control units/processes to be installed shall be vetted by experts from a reputed institute such as NEERI, IIT and NIT.	Have been done.
xxv	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.

**GENERAL CONDITIONS:**

Sl. No	Conditions	Status
i	The project proponent shall abide by the stipulations (as amended from time to time) of the MSPCB/State government or any other statutory body.	GVIL is abiding by the stipulations.
ii	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.
iii	The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> ) 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.	GVIL is maintaining the standards prescribed by the authorities. Interlocking system of equipments has been provided.
iv	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	-Pneumatic dust conveyer system to reuse coal dust with hot is under progress. -Clinker conveyor system a)Dust collector installed b)Clinker discharge to stock pile, dust collector installed

	particulate arresting equipments. Dust/particulate matter collected in pollution control equipments shall be reused.	
v	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.	Being carried out.
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 (night time)	Work in progress.
vii	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.	Authorization from the MSPCB has been obtained for collection, storage and disposal of hazardous wastes.
viii	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.	We have approached Central Ground Water Authority vide our letter dated-GVIL/ENV/2009/359. GVIL/ENV/2005/12 and GVIL/ENV/2016-17/004. Once we receive the plan, the same will be implemented
ix	The company shall undertake eco-development measures including community welfare measures in the project area.	Environment management plan (EMP) has already been framed and is under implementation.
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	Separate Environment management cell has been constituted.
xi	All pollution control equipment in STP shall be manned full time by trained personnel.	Will be done shortly.
xii	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 regularly sent.
xiii	The project proponent will make provisions to keep standby spares at the plant site of pollution control	We have Reverse Air Bag House in pyro section, which has got

	units/devices during operation of the cement plant.	additional capacity to arrest dust.
xiv	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 doing the needful to keep the pollution control equipments in condition & ensure sufficient performance all the time.

### AMBIENT AIR QUALITY MONITORING

Sampling Location: Near Guest House  
Date of Sampling: 15.03.2016 to 16.03.2016  
Duration of Sampling: 24Hrs  
Ambient Temperature: Maximum -23.6 °C  
Minimum-19.2 °C  
Relative Humidity: Maximum-86 %  
Minimum-63%

Parameters	Observed values $\mu\text{g}/\text{m}^3$	Permissible Limits $\mu\text{g}/\text{m}^3$
PM 10	65.3	100
PM2.5	20.2	60
SO <sub>2</sub>	15.3	80
NO <sub>2</sub>	22.4	80

Remarks: The parameters tested were found to be within the permissible limits.

Analyzed by: 

Verified by: 



### AMBIENT AIR QUALITY MONITORING

Sampling Location: Near CCR  
Date of Sampling: 16.03.2016 to 17.03.2016  
Duration of Sampling: 24Hrs  
Ambient Temperature: Maximum -26.6° C  
Minimum-19.1° C  
Relative Humidity: Maximum-78%  
Minimum-63%

Parameters	Observed values $\mu\text{g}/\text{m}^3$	Permissible Limits $\mu\text{g}/\text{m}^3$
PM 10	85.4	100
PM2.5	29.2	60
SO <sub>2</sub>	16.2	80
NO <sub>2</sub>	22.4	80

Remarks: The parameters tested were found to be within the permissible limits.

  
Analyzed by:

  
Verified by:

AMBIENT AIR QUALITY MONITORING

Sampling Location: Near Staff Quarter  
Date of Sampling: 17.03.2016 to 18.03.2016  
Duration of Sampling: 24Hrs  
Ambient Temperature: Maximum -25.2 ° C  
Minimum-18.1 ° C  
Relative Humidity: Maximum-72  
Minimum-45

Parameters	Observed values µg/m <sup>3</sup>	Permissible Limits µg/m <sup>3</sup>
PM 10	59.3	100
PM2.5	20.4	60
SO <sub>2</sub>	13.2	80
NO <sub>2</sub>	19.4	80

Remarks: The parameters tested were found to be within the permissible limits.

  
Analyzed by:

  
Verified by:

### STACK MONITORING

SL. No.	Date of Sampling	Name of Stack	Parameter	Observed values (mg/Nm <sup>3</sup> )	Permissible Limits (mg/Nm <sup>3</sup> )
1	13.04.2016	RABH	Particulate Matter (PM10)	42.0	50
2	14.04.2016	Coal Mill BF		37.0	50
3	15.04.2016	Cooler ESP		4.00	50
4	16.04.2016	Cement Mill BF		32.0	50
5	18.04.2016	Crusher BF		29.0	50

Remarks: The Parameters tested were found to be within the permissible limits of Stack Emission standards.

  
Analyzed by:

  
Verified by:

AMBIENT NOISE LEVEL

SL. No.	Date of Monitoring	Location	Observed Value (dB(A))		Standards(dB(A))	
			Day	Night	Day	Night
1	15.04.2016	Main Gate	56.00	50.00	75	70
2	16.04.2016	HOD Block	53.00	47.00	75	70
3	18.04.2016	Staff Colony	57.00	51.00	75	70

Noise Level Leq (day)-62.42dB

Noise Level Leq (night)-55.32dB

Remarks: The Parameters tested were found to be within the permissible limits of Noise Level Standards.

  
Analyzed by:

  
Verified by: