

DPM:MINES:KLK&KVK(ML-II):MOEF:11/2019

04.11.2019

The Addl .Principa Cheif Conservator of Forests(C)
Ministry of Environment and Forests and Climate Change
Regional Office (SEZ),
Ist and IInd Floor,
Handloom Export Promotion Council,
34, Cathedral Garden Road,
Nungambakkam,
Chennai - 34

Sir,

Sub: MoEF First Half Yearly (January to June) Compliance for the year
2019-20-Reg

Ref: Environmental Clearance Letter.No-SEIAA-TN/F.No-480/2012/EC-
3957/1(a)/TRY /2017/dated :11.10.2017

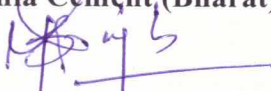
With Reference to the above subject, we are herewith submitting the following Annexure in respect of Kallakudi & Kovandakurichi Limestone Mines (ML-2).

- 1 .Status of Environmental Clearance compliance conditions- (Annexure-1)
2. Environmental Monitoring Reports for the Period Jan-2019 to June-2019-(Annexure-2)
3. Social Welfare activities-(Annexure-3)
4. Green Belt Development Details along With Photographs (Annexure-4)

Hence,We request your good office to kindly acknowledge the receipt of the compliance.

Thanking you

Yours faithfully,
For Dalmia Cement,(Bharat) Limited,



(M.R.Raja Ranjit Singh)
Dy. General Manager(Mines)

Encl: As above

Dalmia Cement (Bharat) Limited

Dalmiapuram, District-Trichy-621 651, Tamil Nadu, India

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Registred Office : Dalmiapuram, Dist. Tiruchirapalli, Tamil Nadu-621 651, India

A **Dalmia Bharat Group** company, www.dalmiabharat.com

Annexure-1

**Kallakudi & Kovandakurichi Limestone Mines
(G.O.No.1158)
Environmental Clearance Compliance Report – Expansion**

**(Environmental Clearance granted vide
Letter No :SEIAA-TN/F.No-480/2012/EC-3957/1(a)/TRY/2017/dated11.10.2017
for Limestone &Marl Mining with enhanced capacity of 0.75 million ton per
annum & Mining Lease Area of 13.295 ha)**

S. No.	Conditions given by SEIAA	Action Taken
A	Conditions for Pre - Construction Phase:-	
(i)	"Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu before taking up any construction activity at the site.	Application is submitted for grant of Consent for Establishment to Tamil Nadu Pollution Control Board on 20.11.2017. Only after obtaining Consent for Establishment & Consent to Operate production will be commenced.
(ii)	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained. No change in mining technology and scope of working should be made without prior approval of the State Environmental Impact Assessment Authority. No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	In case of any change in the scope of the project required, application in stipulated format will be made for a fresh appraisal by the SEAC/SEIAA (Tamilnadu). No change in mining technology and scope of working will be made without prior approval of the State Environmental Impact Assessment Authority (Tamilnadu) No change in the calendar plan including excavation, quantum of mineral limestone and waste will be made without prior approval of concerned authorities.
(iii)	Project proponent shall comply with all the guidelines and notifications issued by MoEF&CC, New Delhi regarding Mining of Minerals and comply with orders of Hon'ble NGT from time to time regarding mining of	Project Proponent will be Complying with all the guidelines and notifications issued by MoEF&CC, New Delhi regarding Mining of Minerals and comply with orders of Hon'ble NGT from time to time regarding mining of minerals under 1(a)

	minerals under 1(a)	
(iv)	A copy of the clearance letter shall be sent by the proponent to the Local Body, Lalgudi Taluk, Trichy District, and the Local NGO, if any, from whom suggestions / representations, if any, have been received while processing the proposal. The clearance letter shall also be put on the website of the Proponent.	A copy of the Environmental Clearance letter sent to concerned Kallakudi town Panchayat on 17.11.2017. The EC letter has been uploaded in the company website.
(v)	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and WildLife (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.	As this is an operating mine, all applicable statutory clearances for this project are available from the concerned competent authorities.
(vi)	The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.	As this is an operating mine, the existing structures will be used. However in case of any new construction of the structures, the same will be undertaken as per the plans approved by the concerned local authorities /local administration.
(vii)	All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.	As this is an operating mine, No major construction work is envisaged. However, all required sanitary and hygienic measures are in place and will be maintained
(viii)	The company shall stress upon the preventive aspects of occupational health.	As this is an operating mine, Awareness Programme on Occupational Health, Diseases and Safety measures are being conducted at regular intervals. The types of training programme includes: a. Induction Training

		<p>b. Job specific Training covering health and safety aspects</p> <p>c. Refresher Training</p>
(ix)	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>As this is an operating mine, no new structures of building is envisaged. The existing Office Shed, Toilet & Septic Tank are sufficient for the expansion activities as well.</p> <p>The employees working in the mine are provided with safe drinking water, medical health care etc.,</p>
(x)	<p>The project authorities should advertise with basic details at least in two widely circulated local newspapers, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA,TN and a copy of the same should be forwarded to the Regional Office of the Ministry of Environment and Forests located Chennai.</p>	<p>Advertisement in two local newspapers widely circulated in the region, one in English (New Indian Express) and the other in Tamil (Dinamani) published on 17.11.2017, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the TNPCB and also can be seen at website of the SEIAA,TN at http://seiaa.tn.gov.in.</p> <p>The copies of advertisement submitted Regional Office of the MoEF & CC, Chennai.</p>
(xi)	<p>A separate environment and safety management cell with qualified staff shall be set up before commissioning of construction activities and shall be retained throughout the life time of the industry, for implementation of the stipulated environmental safeguards.</p>	<p>As this is an operating mine, no extra construction activities are envisaged. However a separate Environmental Cell to take care of environment and safety management function is in place and the Head of the Cell directly reports to the Head of the Organization for implementation environmental safeguards</p>
(xii)	<p>The State Pollution Control Board should display a copy of</p>	<p>Displayed.</p>

	<p>the Environmental Clearance issued to the project at the Regional office, District Industry Centre and the Collector's office/ Tahsildar's office for 30 days.</p> <p>The Project Proponent has to conduct Ambient Air Quality survey twice in, week (104 times) in a year and monitor the PM 10& PM 2.5.</p>	<p>Ambient Air quality monitoring to monitor the PM10 and PM 2.5 will be carried as advised.</p> <p style="text-align: center;">-</p>
(xiii)	<p>A scientific site/ ecological rehabilitation and restoration plan on long term basis should be drawn to carryout restoration with native species and Bio diversity</p>	<p>There is no overburden or waste to backfill the mined out pit at the end of mine life. Hence it is planned to convert the mine pit into water storage reservoir.</p> <p>Green belt is developed in the mine with native species.</p>
(xiv)	<p>The Green/Blue plan should guide the restoration of the site. The rehabilitation/restoration plan should be submitted to SEIAA-TN within one month.</p>	<p>There is no overburden or waste to backfill the mined out pit at the end of mine life. Hence it is planned to convert the mine pit into water storage reservoir.</p> <p>The restoration plan will be submitted to SEIAA-TN within one month as advised.</p>
(xv)	<p>An amount of Rs.5 Lakhs should be allocated under CSR for research studies on rehabilitation & research and awarded to forest department/accredited forest research institution of State or Central Government, or biodiversity organization.</p>	<p>An amount of RS.5 Lakhs Sponsored under CSR for research studies on rehabilitation. The study will be awarded to forest department/accredited forest research institution of State or Central Government, or biodiversity organization as advised.</p>
(xvi)	<p>The existing water bodies should not be disturbed to ensure sustainable environment for aquatic life forms.</p>	<p>There are no water body crossing this mining area. However all preventive steps will be taken to preserve water body located near the Mine site for ensuring the sustainable environment for aquatic life forms.</p>
(xvii)	<p>The proponent should completely implement all environmental pollution control measures as detailed in the EIA report and in the additional report</p>	<p>All environmental pollution control measures as mentioned in the EIA report and will be implemented.</p>
(xviii)	<p>Additional sprinklers to be effectively added along the route</p>	<p>Presently Water Sprinkling along the route of transporting limestone from the mines to</p>

	for transporting limestone from the mines to the plant	the plant is carried out by engaging the water tankers. The same system will be continued in future also.
(xix)	Avenue plantation wherever needed has to be carried out along the route for dust suppression.	As this is an operating mine, already Avenue Plantation is carried out wherever needed to suppress to dust along the route to the plant. However it will be further carried out in the areas where it is not presently available.
(xx)	The green belt developed for the prevention of dust pollution should not form a part of the larger green belt development envisaged in the EIA report.	Is followed
(xxi)	Regarding CSR activities, the proponent should concentrate more on infrastructure facilities useful to the local community. They should include skill development and sports as some of the activities in this regard.	<p>Suitable CSR activities on skill development and sports as some of the activities is carried out for the benefit of local residents in the nearby villages around the ML Area.</p> <p>On infrastructure development front, various activities like construction of water tank, sanitation facility, maintenance of village roads, desilting of Water body is carried out from time to time in consultation with the District Collector and the concerned local Panchayat Chairman.</p>
(xxii)	Regular monitoring and check up for pulmonary and carcinogenic diseases to be carried out regularly, not only for the workers involved in the mines but also to the people in the villages adjoining the mines. Interaction with the PHC & district medical officer should be on regular basis to monitor the incidence of the diseases if any and to provide suitable medical facility for the patients.	<p>Regular monitoring and check up for pulmonary and carcinogenic diseases is carried out regularly in our colony hospital for the employees of mines.</p> <p>Regular monitoring and check up for pulmonary and carcinogenic diseases are carried out regularly for nearly village people through CSR activity after interaction with the PHC & district medical officer.</p>
(xxiii)	As mining operations are conducted by deploying rock breakers which is bound to produce noise as well as vibration, a survey has to be undertaken for studying the vibrations and remedial action	The mining operation are carried by deploying rock breakers. These breakers are fitted with vibration & noise damping pads inside to reduce the generation of vibration & noise during the operations. Hence these breakers are called vibro silenced type of hydraulic rock breakers.

	<p>need to be taken to circumvent the noise pollution and dissemination from the source. Vibration studies need to be conducted by a reputed organization like Annamalai University, Anna University, NIT,Trichy. Green barrier needs to be provided between the mine boundary and the nearby habitation to minimize the noise pollution.</p>	<p>The Noise generated from the breakers is regularly monitored and are found to be well within the limits.</p> <p>Vibration studies were conducted by engaging the National Institute of Miners health, KGF.</p> <p>Also green belt is developed surrounding the mining area to minimize the noise pollution and as advised it will be further strengthened in future.</p>
Conditions for Construction/Mining Phase		
(i)	<p>Non - Conventional open-cast mining deploying mega rock breakers shall be adopted as reported for the mining of lime stone. No Drilling or Blasting shall be done during mining operations.</p>	<p>Non-conventional method of mining by deploying rock by deploying Mega rock breakers for mining Limestone which eliminates drilling & blasting.</p>
(ii)	<p>To furnish to the SEIAA for one year period:</p> <ol style="list-style-type: none"> a. Report on quality and quantity of ground water to be generated during mining operations. b. Comparative statement on normal ground water and mined out water with respect to qualities & suitability for agriculture etc for one year period. 	<p>As advised the reports on quality & quantity of ground water will be submitted to SEIAA-TN at periodic intervals of one year period.</p>

(iii)	Monitoring of well water levels and water quality of the wells in the locations furnished in the EIA report shall be done during pre-monsoon and post monsoon period and results submitted to the Regional Office of MoEF, Chennai and SEIAA.	As this is an operating mines, the monitoring of well water levels and water quality of the wells in the locations furnished in the EIA report are carried out during pre-monsoon and post monsoon period and results are submitted to the Regional Office of the MoEFCC , Chennai. As advised the copy of the report will be henceforth sent to SEIAA-TN also.
(iv)	Monitoring of water quality and air quality in and around the project site in the selected monitoring points as mentioned the EIA report shall be continued regularly involving Academic Institutions.	As this is an operating mines, the monitoring of water quality & air quality in & around mines are carried out as mentioned in the EIA report by engaging the services of the M/s.Environmental system Consultants& Ambiente Lab solutions Private Limited Chennai which is a NABL accredited laboratory. The reports are submitted regularly to the Regional Office of the MoEFCC , Chennai.

(v)	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August)postmonsoon(November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly,,to the Ministry of Environment and Forests and its Regional-office,Chennai, the Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.</p>	<p>As this is an operating mines, the monitoring of ground water level around mines are carried out in four seasons of the year by engaging the services of the M/s.Environmental system Consultants& Ambiente Lab solutions Private Limited Chennai which is a NABL accredited laboratory. The reports are submitted regularly to the Regional Office of the MoEFCC , Chennai.</p> <p>As advised the copy of the report will be henceforth sent to Ground Water Authority and the Regional Director, Central Ground Water Board.</p>
(vi)	<p>Hydro geological study including infiltration test shall be conducted by any reputed agency to estimate leachate quantity.</p>	<p>Presently Hydro geological study of the mine area is being carried by engaging the services of a reputed agency. The study is presently on going at site.</p>
(vii)	<p>The excess over burden shall not be disposed for any commercial purposes and shall be disposed within the mine lease area only</p>	<p>There is no over burden in the mining area and hence question of disposal of overburden does not arise.</p>
(viii)	<p>The proponent shall conduct AAQ Monitoring Survey once in 6 months in the locations furnished in the EIA report and furnish report to the Regional Office of MoEF, Chennai. It</p>	<p>As this is an operating mines, the monitoring of AAQ around mines are carried out in the locations as mentioned in the EIA report by engaging the services of the M/s.Environmental system Consultants& Ambiente Lab solutions</p>

	shall be ensured that one AAQ station shall be located in the nearby habitation of Kallakudi & Kovandakurichi village.	Private Limited Chennai which is a NABL accredited laboratory. The reports are submitted regularly to the Regional Office of the MoEFCC , Chennai. As advised one survey location close to habitations of each Kallkudi and Kovandakurichi village will be followed.
(ix)	The critical parameters such as RSPM (PM25, P.M10) and NOx in the ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored[(TDS, DO, PH and Total Suspended Solids (TSS)].The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain.	As this is an operating mines, the monitoring of water quality & air quality in & around mines are carried out as mentioned in the EIA report by engaging the services of the M/s.Environmental system Consultants& Ambiente Lab solutions Private Limited Chennai which is a NABL accredited laboratory. The reports are submitted regularly to the Regional Office of the MoEFCC , Chennai. The monitored data is regularly uploaded on the website of the company. The data will be displayed on a display board at the project site at a suitable location near the main gate of the mines as well as advised.
(x)	Data on ambient air quality [(RSPM and NOx] shall be regularly submitted to the Regional office of MoEF at Chennai and the SEIAA/SPCB/CPCB once in six months.	As this is an operating mines, the monitoring of ambient air quality of RSPM & NOx in & around mines are carried regularly and the reports are submitted to the Regional Office of the MoEF & CC, Chennai & SPCB. As advised the copy of the report will be henceforth sent to SEIAA-TN & CPCB also.
(xi)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	As this is an operating mine, the fugitive dust emission from haul roads are controlled by carrying out water sprinkling on haul roads at regular intervals. Additional Adequate measures taken to control fugitive emission are given below. a. Water Sprinkling on Haul Road , Rock breaking areas and loading area b. Covering of trucks with tarpaulin while transportation of LS from

		<p>mines to factory.</p> <p>c. Speed Control.</p> <p>d. Avoiding overloading.</p> <p>e. Good maintenance of vehicles and mining machinery.</p>
(xii)	<p>Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.</p>	<p>As this is an operating mine, Initial medical examination and periodical medical examination of the employees engaged in the mines is carried out and records are maintained</p> <p>A proper schedule of health examination of the workers are drawn and followed.</p>
(xiii)	<p>Regular medical check-up for mine workers and nearby residents around the project site involving community medical center/NIMH shall be conducted.</p>	<p>As this is an operating mine, Initial medical examination and periodical medical examination of the employees engaged in the mines is carried out and records are maintained.</p> <p>Also periodical medical camps engaging the services of Near by Govt Hospital & other good hospitals from Trichy are being carried out through our CSR activities for nearby residents around the mines.</p>
(xiv)	<p>As per norms, the health study should be conducted through competent/approved health organization and report submitted for one year</p>	<p>As this is an operating mine, Initial medical examination and periodical medical examination of the employees engaged in the mines is carried out and records are maintained.</p> <p>Also periodical medical camps engaging the services of Near by Govt Hospital & other good hospitals from Trichy are being carried out through our CSR activities for nearby residents around the mines.</p>
(xv)	<p>Corpus fund created should be prioritized and utilized for health issues.</p>	<p>Corpus Fund earmarked for conducting the medical camps and medical examination are utilized for that purposes only.</p>
(xvi)	<p>Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all transfer points shall also have efficient dust control arrangements. These should be properly maintained and</p>	<p>Water sprinkling is carried out to suppress the dust at material handling area & loading and unloading areas. The water sprinkling tankers are operated and maintained well.</p>

	operated.	
(xvii)	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral within the lease area. The mineral transportation within the mine lease shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	<p>As this is an operating mine. The vehicles entering the Mine are checked at the entry point for Pollution Under Control Certificate.</p> <p>Regular maintenance of vehicles used in mining operations and in transportation of mineral are carried out. The material transported through trucks are covered with tarpaulin, before commencement of transportation. The vehicles are not overloaded.</p>
(xviii)	The effective safe guard measures shall be provided to control particulate dust level in critical areas, transfer points and haul road within the mine area.	Water sprinkling is carried out to suppress the dust at critical areas such as material handling area & loading and unloading areas.
(xix)	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for monitoring of RSPM(PM2.5, P.M10) and NOX. Location of the stations should, be decided in consultation with Tamil Nadu Pollution Control Board based on, the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring etc.	<p>As this is an operating mine, Ambient Air Quality Monitoring Stations established in the core zone as well as in the buffer zone for PM2.5 & PM10 and NOx monitoring are furnished in the EIA/EMP report.</p> <p>Location of the stations and the frequency of monitoring are carried out in Consultation with the Tamilnadu Pollution Control Board.</p>
(xx)	Mine working shall be restricted up to 32 (KLK) & 89 m BGL as per the present mine plan period. NOC from the State GWA for drawing ground water shall be furnished.	<p>As advised, mine working will be restricted up to 32 m (KLK) & 89 (KVK) m BGL as per IBM Approved Mine plan.</p> <p>The required clearance (NOC) will be obtained from the State Ground Water Resources Department, Tamilnadu, and the same will be furnished.</p>
(xxi)	Separate drain shall be constructed in between waste	There is no waste dump or water body near

	dump (bund) and nearby river course, if any, to avoid silting in the water body.	the mining lease area.
(xxii)	Garland drains and siltation ponds of appropriate size shall be constructed around the mine working, soil and mineral dumps to prevent run off of water and flow of sediments. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted, particularly monsoon, and maintained properly.	There is no waste dump or water body near the mining lease area. Presently, the water collected during the rainy days are utilized for watering the mine area, roads, greenbelt development etc.
(xxiii)	The rain water accumulation in the mine during rainy seasons shall be treated by providing settling tanks in the periphery of the mining lease area and the overflow clean water from the settling tanks shall be allowed to discharge through the first order streams to join nearby natural drains. The settling tanks shall be cleaned periodically for removal of sediments and such records of cleaning shall be maintained properly	Presently, the water collected during the rainy days are collected in the mine sump which acts as a settling tank. Only clear water is pumped out to the nearby nallahs during the rainy days. The sediments in mine sump are cleared periodically and records of cleaning will be maintained. This rain water collected in the Mine sump is used for dust suppression, greenbelt development.
(xxiv)	Garland drains proposed on the non moving sides of the Dump yards shall be connected to settling tanks to arrest any wash off sediments from the dumps and only overflowing clean water shall be allowed to discharge through the first order streams. The settling tanks shall be of sufficient dimensions to hold the wash offs in one rainy season and has to be cleaned before, every rainy season.	There is no waste dump or water body near the mining lease area.
(xxv)	Conservation plan furnished to pro scheduled flora and fauna in the core and buffer zone of the project site shall be implemented. Scheduled species	No Schedule I fauna /flora exists in in the core and buffer zone of the project. Hence, no Conservation Plan is envisaged.

	of fauna found in the study area shall be monitored closely..	
(xxvi)	Annual monitoring on Bio-diversity around the project site shall be conducted and a report shall be furnished.	Annual monitoring on Bio-diversity around the project site will be conducted and a report will be furnished.
(xxvii)	<p>Greenbelt shall be raised including 7.5 wide statutory barrier all around the mining lease, reclaimed and rehabilitated areas, around water body, roads etc.by planting the native species in consultation with the Local DFO/Agriculture Department.</p> <p>The ultimate area to be planted /afforested shall not be less than 0.4ha. Greenbelt shall developed all along the mine lease area in a phased manner as per the approved mining plan .</p>	<p>As this is an operating mine, greenbelt is raised including a 7.5 m wide statutory barrier all around the mining lease and roads etc by planting local species in consultation with local DFO/Agriculture department.</p> <p>As advised, the ultimate area to be planted/afforested will not be less than 0.4 ha.Greenbelt will be developed all along the mining lease area in a phased manner and will be completed within first 5 years.</p>
(xxviii)	Green belt shall be provided as per norms of MoEF & CC, GOI, in consultation Local DFO.	As this is an operating mine, greenbelt is developed all along boundaries of mining lease area as norms given by MoEF & CC, GOI, in consultation Local DFO.
(xxix)	The project authority shall implement suitable water conservation measures including rain water harvesting system to augment ground water resources in the area in consultation with the Regional Director, State Ground Water Board.	As this is an operating mine, the quantity of water collected in Mine sump inside the pit during monsoon is used for dust control in haul roads, greenbelt development. The water stored in the pit will help to augment ground water recharge.
(xxx)	The Company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to bring into focus	As advised within 3 months, suitable steps will be taken to address the points notified and will be submitted to SEIAA-TN.

	<p>any infringement/deviation/violation environmental or forest norms/conditions,</p> <p>(ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance of EC conditions and</p> <p>(iii) System of reporting of non-compliance /violation of environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.</p>	
(xxxix)	<p>A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests, Government of India, New Delhi in advance of 5 years prior to the final mine closure for approval. Mine closure procedure shall be followed as per the approved mining plan.</p>	<p>A Final Mine Closure Plan along with details of Corpus Fund will be submitted to the SEIAA, TN , 5 years in advance, prior to the final mine closure for approval.</p> <p>Mine closure procedure will be followed as per the approved Mining Plan.</p>
(xxxixii)	<p>Depth of water table of the wells located inside the mining area and wells located around the monitoring area shall be monitored regularly.</p>	<p>As this is an operating mine, the water table around the area will be monitored regularly. There are no wells located within the mines.</p> <p>It is also planned to install Two piezometers to monitor ground water Level.</p>
(xxxixiii)	<p>CSR activity shall include providing social & welfare measures for the local residents & nearby villages around the mine area. It shall focus on providing water supply and sanitation facility to the nearby government schools around the mine area and maintenance of village roads, ponds, providing solar street lights etc. Funds earmarked for CSR activity shall be used for that purpose only and separate account shall be maintained and report on</p>	<p>As this is an operating mine, CSR activities for the local residents & nearby villagers around the Mine area are being carried out regularly. Main focus on providing water supply and sanitation facility to the nearby government schools around the Mine area and maintenance of village roads ,ponds, providing solar street lights etc are being carried out.</p> <p>Funds earmarked for CSR activity is used for that purpose only and separate account will be maintained and report on implementation will be furnished regularly.</p>

	implementation shall be furnished regularly.	
(xxxiv)	The points raised in public hearing and concerns shall be addressed without fail as per Action plan submitted to SEIAA.	Is followed as per action plan submitted to SEIAA.
C	Conditions for Post Construction I Operation Phase & Entire life of the project:-	
(i).	It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance, and also before commencement of production.	Half yearly compliance report is being submitted in hard and soft copies by 1st June and 1 st December of each calendar year in respect of the conditions stipulated in the prior environmental clearance and also before commencement of production.
(ii).	No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN. In case of any deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the SEIAA-TN to assess the adequacy of conditions imposed and to add Additional environmental protection measures required, if any.	No expansion or modernization in the project will be carried out without prior approval of the SEIAA - T N . In case of any deviations or alterations in the project proposal from those submitted to the authority for clearance, a fresh reference will be made to the SEIAA-TN to the SEIAA-TN to assess conditions imposed and to add additional environmental protection measure required, if any.
(iii)	All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.	All the environmental protection and measures safeguards as recommended in the EIA report will be implemented
(iv)	The implementation of the project vis-a-vis environmental action plans shall be monitored by the Regional office of MoEF at Chennai/TNPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies regularly.	Six monthly compliance status Report is being submitted regularly to MOEFCC at Chennai, TNPCB & CPCB.
(v)	Data on ambient air, stack and	As this is an operating mine, the

	<p>fugitive emissions shall be regularly submitted online to the Regional office of MoEF at Chennai, TNPCB and Central Pollution Control Board as well as hard copy once in six months</p> <p>and display data on RSPM, SO₂ and NO_x outside the premises at the appropriate place for the general public</p>	<p>monitoring of quality of ambient air and fugitive emissions will be carried out and the data on ambient air and fugitive emissions are regularly submitted to the Regional Office of MOEFCC at Chennai, TNPCB and Central Pollution Control Board in both hard copy as well as in soft copy once in six months.</p> <p>The data on PM₁₀, PM_{2.5}, SO₂ and NO_x will be displayed outside the premises at the appropriate place for the general public.</p>
(vi)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Mines Act	As this is an operating mine, Initial medical examination and periodical medical examination of the employees engaged in the mines is carried out and records are maintained.
(vii)	The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately	The first aid facilities are provided in the respective mine site. and all necessary medical facilities available in the company dispensary. The records of medical examination of the employee are maintained with our Chief Medical Officer and copy of the reports are available in mines office.
(viii)	The overall noise levels in and around the mining area shall be kept well within the standards prescribed for by providing noise control measures on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 55 dBA (day time) and 45 dBA (night time).	<p>As this is an operating mine, the noise levels in around the mine area are maintained well within the prescribed limits.</p> <p>Measures like provision of silencers in machines, greenbelt along the boundary of ML area, etc., are provided for controlling ambient noise level below 55 dBA in day time and 45 in night time.</p> <p>Ear plugs/Muffs are provided to the operators of heavy earth moving machineries in mines. .</p>
(ix)	The project proponent shall regenerate / preserve water body located at about 5.0 km from the propose site at its own expenses. The project proponent shall also develop village ponds in addition and shall ensure that the existing ponds in and around	Action will be taken to preserve water body located at about 5 km from the proposed Mine site at its own expenses and also develop village ponds in addition and maintain the existing ponds in and around 5 km radius.

	5.0 Km radius are well maintained.	
(x)	Hydro geological study of the area shall be reviewed annually and report submitted to the Authority. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the operation of the Mining activity.	Hydrogeological study of the area conducted will be reviewed annually and the report will be submitted to authority. No water bodies including natural drainage system in the area will be disturbed due to mining activities by taking necessary safety precautions.
(xi)	CSR activity shall be implemented as committed by drawing a scheme for social upliftment in the surrounding villages with reference to contribution in road construction, providing sanitation facilities, drinking water supply in the government schools nearby, community awareness, establishment of health centres, water supply to nearby villages and employment to local people whenever and wherever possible both for technical and non-technical jobs and protection of water sources around the project site etc. Funds earmarked for CSR activity shall be used for that purpose only and separate account shall be maintained and report on implementation shall be furnished regularly.	As this is an operating mines, CSR activity are implemented as committed by drawing a scheme for social up-liftment in the surrounding villages with reference to the contribution in road construction, providing sanitation facilities, drinking water supply in the government schools nearby, community awareness, establishment of health care centers and employment to local people whenever and wherever possible both for technical and non technical jobs and protection of water sources around the project site. Funds earmarked for CSR activity will be used for that purpose only and separate account will be maintained and report on implementation will be furnished regularly.
(xii)	A separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of a Senior Executive.	As this is an operating mine, a separate Environmental Cell to take care of environment and safety management function is in place and the Head of the Cell directly reports to the Head of the Organization for implementation environmental safeguards The environmental monitoring is carried out by engaging the services of M/s.Environmental system Consultants& Ambient e Lab solutions Private Limited

		Chennai which is a accredited NABL laboratory.
(xiii)	The requisite amount earmarked towards capital cost and recurring cost/annum for implementing pollution control measures shall be used judiciously to implement the Environment Management Plan as furnished in the EIA report. The funds so provided shall not be diverted for any other purposes.	The funds earmarked for environmental protection measures are used to implement the Environment Management Plan as furnished in the EIA Report.
(xiv)	The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO ₂ , NO _x or critical sector parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public	<p>The status of compliance of the environmental clearance conditions, is being uploaded in the company website and will be updated periodically.</p> <p>The same is being simultaneously be sent to the Regional Office of the Ministry of Environment and Forest & Climate Change , Chennai, the Zonal Office of Central Pollution Control Board, Bengaluru and the Tamilnadu Pollution Control Board.</p> <p>As this is a operating mines, the Pollutant levels namely PM₁₀, PM_{2.5}, SO₂, NO_x (in the ambient air) are monitored and the monitored data are uploaded in the company website and are updated periodically. The monitored data are sent in hard copy to all the all above mentioned authorities No stack monitoring is required to be carried out as there will not be any stack within the ML Area.</p>
(xv)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office o MoEF, the respective Zonal Office of CPCB and the SPCB.	<p>The six monthly report on the status of compliance of the stipulated environmental clearance in hard copies is being submitted to the SEIAA, TN, the Regional Office of the MoEF &CC, Chennai, and the Tamilnadu Pollution Control Board.</p> <p>Henceforth, the monitored data (both in hard copies as well as by e-mail</p>

	The Regional Office of Ministry at Chennai/CPCB/SPCB shall monitor the stipulated condition	submitted to all above mentioned authorities regularly.
(xvi)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	The environmental statement for each financial year ending 31st March in Form-V as mandated is submitted to Tamilnadu Pollution Control Board and the Regional Office of the Ministry of Environment, Forest & Climate Change, Chennai. The same is put on the website of the company and will also be sent to the respective Regional Office of the Ministry of Environment, Forest & Climate change, Chennai by e-mail. The status of compliance of Environmental Clearance conditions is being uploaded on the company website.
(xvii)	Environmental Clearance is being issued without prejudice to the action initiated under Environment (Protection) Act 1986 or any court case pending or any other court order shall prevail.	Noted.
(xviii)	The SEIAA, TN may alter/modi the above conditions or stipulate any further condition in the interest of environment protection	Guidelines noted and additional condition stipulated, if any, will also be implemented.
(xix)	The SEIAA/SEAC reserves the right to add any further condition(s) on receiving reports from the project authority. The above condition shall be monitored by the Regional Office of MoEF located at Chennai.	Guidelines Noted and additional condition stipulated, if any, will also be implemented.
(xx)	The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
(xxi)	The SEIAA, TN may cancel the	Noted.

	environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.	
(xxii)	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Noted.
(xxiii)	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India / Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter	Noted.
(xxiv)	This clearance is issued with respect only environmental	Noted.

	<p>considerations and it does not imply that SEIAA approved the way by which lease is granted to the project. While granting lease, the concerned authority shall ensure compliance of Relevant rules, Regulations, Notification, Government resolutions, circulars, Judgments/Orders of Hon'ble Court and NGT, etc.</p>	
(xxv)	<p>Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010</p>	Noted.

Annexure-2

<u>KALLAKUDI & KOVANDAKURICHI LIMESTONE MINES (ML - 2)</u>					
(Environmental clearance of SEIAA Lr.No-SEIAA-TN/F.No -480/2012/ec-3957/1(a)/TRY/2017/Dated :11.10.2017)					
<u>AIR QUALITY - KALLAKUDI AND KOVANDAKURICHI LIMESTONE MINES FIRST HALF YEARLY REPORT</u>					
<u>(January 2019 to March 2019)</u>					
Abstract of Ambient Air quality data for the period January 19 to March 19					
Station Name	PM - 2.5 (µg/m ³)	PM - 10 (µg/m ³)	SO ₂ (µg/m ³)	NOX (µg/m ³)	CO (µg/m ³)
No. of Observations	6	6	6	6	6
Kallakudi Limestone Mines	27	46	12	17	< 114.5
Vadugarpattai Village	21	36	9	13	< 114.5
Kovandakurichi Village	18	33	8	11	< 114.5
Thappai	17	29	9	11	< 114.5
Kil Arasur	24	42	11	13	< 114.5
Palaganatham	14	26	7	9	< 114.5
Varakuppai	14	23	7	7	< 114.5
Pullambadi	24	46	12	15	< 114.5
NAAQ - Norms	60	100	80	80	2000

<u>KALLAKUDI & KOVANDAKURICHI LIMESTONE MINES (ML - 2)</u>					
(Environmental clearance of SEIAA Lr.No-SEIAA-TN/F.No -480/2012/ec-3957/1(a)/TRY/2017/Dated :11.10.2017)					
<u>AIR QUALITY - KALLAKUDI AND KOVANDAKURICHI LIMESTONE MINES</u>					
<u>FIRST HALF YEARLY REPORT</u>					
<u>(April 2019 to June 2019)</u>					
Abstract of Ambient Air quality data for the period April 19 to June19					
Station Name	PM - 2.5 (µg/m3)	PM - 10 (µg/m3)	SO2 (µg/m3)	NOX (µg/m3)	CO (µg/m3)
No. of Observations	6	6	6	6	6
Kallakudi Limestone Mines	24	60.3	7.1	19.4	< 114.5
Vadugarpattai Village	21.3	53.8	6.3	17.3	< 114.5
Kovandakurichi Village	17.3	44	5.1	14.2	< 114.5
Thappai	16.8	42.9	5.0	14.0	< 114.5
Kil Arasur	19.7	50	5.8	16.1	< 114.5
Palaganatham	22	55.9	6.5	18.0	< 114.5
Varakuppai	17.7	45.1	5.3	14.5	< 114.5
Pullambadi	25.5	64.4	7.5	20.5	< 114.5
NAAQ - Norms	60	100	80	80	2000

WATERSHED PROJECT SOIL & WATER CONSERVATION



**AGRO FORESTRY AND DRY LAND HORTICULTURE AT WSD
INTERVENTION VILLAGES**

WATERSHED PROJECT SOIL & WATER CONSERVATION



**CONSTRUCTION OF SUNKEN POND IN PROGRESS AT
MELARASUR WATERSHED VILLAGE**

WATERSHED PROJECT - SOIL & WATER CONSERVATION



NEW SUNKEN POND AT KOVANDAKURICHI VILLAGE

LIVELIHOOD -PROGRAM -SHG DEVELOPMENT



MEETINGS WITH SHG FEDERATION ON LIVELIHOOD INITIATIVE

LIVELIHOOD PROGRAM SKILL TRAINING



WORKERS EDUCATION TRAINING PROGRAM



COMMUNITY CELEBRATION



PONGAL CELEBRATION AT SKILL TRAINING CENTRE

ZERO BUDGET INITIATIVE



**POULTRY FARMING ENTREPRENUR DEVELOPMENT-
UNDER LIVELIHOOD PROGRAM**

Annexure-4

Details of Green Belt for Kallakudi and Kovandakurichi Limestone Mines (ML-2)		
Year	No of Saplings	Extent(Ha)
As on 31.03.2018	1748	2.30
2018-19	150	0.50
As on 31.03.2019	1898	2.80

Kallakudi & Kovadakurichi Limestone Mines (ML-2)

Photographs of Green Belt Development





Kovandakurichi

	Decimal	DMS
Latitude	10.957092	10°57'25" N
Longitude	78.936215	78°56'10" E

2019-03-18(Mon) 10:10(AM)



Kovandakurichi

	Decimal	DMS	
Latitude	10.957093	10°57'25" N	 29°C 84°F
Longitude	78.936215	78°56'10" E	

2019-03-18(Mon) 10:17(AM)