



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

From: Dr. S. Kalyanasundaram, I.F.S.(Retd.) Chairman 3rd Floor, Panagal Maaligai, No.1, Jeenis Road, Saidapet, Chennai-600 015.	To: The President(Mfg) The Ramco Cements Ltd., Auras Corporate Centre, 5 <sup>th</sup> floor, 98A, Dr. Radhakrishnan Road, Mylapore, Chennai – 600 004.
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Lr.No.SEIAA-TN /F.No-461/2012 /EC- 44 /1(a) /ARY/2016/dated /14.11.2016.

Sir,

Sub: SEIAA, TN –Environmental Clearance for Usenabad South Limestone Mine over an extent of 25.105 Ha & situated in S.F. Nos. 319(p), 320(p) 321, 330, 331, 332, etc., of Kallankurichi Village, Ariyalur Taluk, Ariyalur District for limestone and Marl Production of 1.0 MTPA (ROM) by M/s.The Ramco Cements Limited - Issued - Regarding.

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1. This has reference to your application for Environmental Clearance to MoEF, GOI dated 14.05.2012, and along with subsequent documents & EIA report submitted for the aforesaid project to the State Level Environment Impact Assessment Authority, Tamil Nadu seeking Environmental Clearance under the Environment Impact Assessment Notification, 2006.
2. It is noted, interalia that the project proposal is for Production capacity of 1.0 MTPA ROM (Limestone & Marl), in applied mine lease area of 25.105 Ha (Out of 25.105 ha company owned Patta lands is 24.55 ha & 0.555 ha Government Poramboke Land) at - S.F. Nos. 319(p), 320(p) 321, 330, 331, 332, etc., of Kallankurichi Village, Ariyalur Taluk, Ariyalur District, so as to meet the captive need of the Cement Plant at Ariyalur Unit in Tamil Nadu. The co-ordinates of the mining lease area is furnished as Latitude (N) 11° 08' 52" - 11° 09' 06" Longitude(E) 79° 06' 08" - 79° 06' 36" as per Topo sheet No. 58M/4.

  
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STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

Usenabad South Limestone Mine Lease area is a fresh lease area and there is no forest land involved. There is no water course crossing the Lease area. It is reported that there is no litigation pending against this proposal.

3. The lime stone mining is a New Lease proposed (<50 ha) over an area of 25.105 Ha. Mining operations will be carried out by Non - conventional Opencast Mechanized Mining by means of excavation through Rock Breakers, Ripper Dozers, etc. Drilling and Blasting will be carried out sporadically as standby measure. A combination of Hyundai 210 – LC Rock Breaker and Ex-300 will be utilized for the Mining. The mined out material will be loaded by the Excavator – RX-300 and transported through AMW tipper combination to the Cement Plant. The mining lease is about 1.0 Km west of Kallankurichi village (in Usenabad & Pallakaveri hamlets), lease area is connected by a metal road branching off from Ariyalur – Kadagur – Anadaavadi Road. Within the lease area there is no village, hamlet or any settlement and thus there is no R&R. Ramco cements ltd Govindapuram Cement Plant is located at a distance of 3 km aerial distance (5 km by road) in north-northwest. Precise area Communication was accorded to Ramco Cements Ltd by the State Government vide letter 3858/MMA2/2011-2 dated 01.03.2011. Mining Plan for Usenabad South Limestone Mine - has been approved by Indian Bureau of Mines (IBM), Chennai vide letter dated Lr.No.TN/ALR/MP/LST-1979-MDS dated 23.05.2016.
4. The mineable reserves are estimated as 2.9 Million tones of Limestone. No processing or beneficiation of the ore or mineral mined is planned. The ultimate pit at conceptual stage is reported to be 35.5 m bgl and Ultimate Pit limit at plan period is 25m bgl. Ground water table in the mining lease area generally fluctuates between 15m bgl to 20m bgl. There is intersection of Ground water in Mine working during the scheme period.

  
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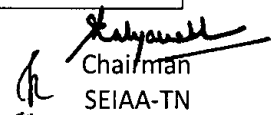


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STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

5. The proposal was Awarded TOR in Reference SEAC/F.No.7/M-XXVI/TOR-91/2012 dated 01.10.2012. TOR was extended vide Letter No. SEIAA/TN/F.461/TOR-EXT/2012-199 dated 28.11.2014, and again extended vide Letter No. SEIAA/TN/F.461/TOR-EXT/2012/2015 dated 05.11.2015. Public Hearing was conducted on 20.09.2016. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee, Tamilnadu in its 82<sup>nd</sup> meeting held on 21.10.2016 and 83<sup>rd</sup> SEAC meeting held on 11.11.2016 and recommended to SEIAA-TN to consider issue of EC.
6. The proposal was placed in the 200<sup>th</sup> SEIAA-TN meeting held on 14.11.2016 and SEIAA after careful consideration decided to issue Environmental Clearance in its meeting and vide item No. 200-28, it was decided by SEIAA to issue prior EC based on the Information submitted by you which are extracted below:-

F. No. 461/2012		Date of receipt at SEIAA : 14.05.2012
Sl. No.	Description	Details
1	Name of the Project	M/s. The Ramco Cements Limited Usenabad South Limestone Mine. Extent – 25.105 Ha & Production – 1.0 MTPA (ROM)- (New Lease For Captive Use)
2	Location Co-ordinates-	S.F. Nos. 319(p), 320(p) 321, 330, 331, 332, etc., of Kallankurichi Village, Ariyalur Taluk, Ariyalur District. ----- Latitude (N) 11° 08' 52" - 11° 09' 06" Longitude(E) 79° 06' 08" - 79° 06' 36"
3	Type of Project	Mining of Major Minerals Schedule 1 (a): < 50 ha of Mining lease area in respect of non-coal mine lease.
4	Life of mine	10 Years
5	Ground level table	15 m BGL (Post monsoon) 20 m (pre monsoon)

  
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ENVIRONMENTAL CLEARANCE

6	Mineable reserve	2.90 MT of Limestone and Marl.																											
7	Total Area (in hectares)	25.105 Ha; <table border="1"> <thead> <tr> <th>Activities</th> <th>Existing Land Use, Ha</th> <th>At the End of Plan Period, Ha</th> </tr> </thead> <tbody> <tr> <td>Mined out area</td> <td>0</td> <td>9.000</td> </tr> <tr> <td>Storage for top soil</td> <td>0</td> <td>0</td> </tr> <tr> <td>Overburden Dump</td> <td>0</td> <td>4.210</td> </tr> <tr> <td>Infrastructures : Buildings, roads, etc.</td> <td>0</td> <td>0.200</td> </tr> <tr> <td>Roads</td> <td>0</td> <td>0.500</td> </tr> <tr> <td>Green Belt</td> <td>0</td> <td>2.170</td> </tr> <tr> <td>Others to specify (undisturbed)</td> <td>25.105</td> <td>9.025</td> </tr> <tr> <td>Total</td> <td>25.105</td> <td>25.105</td> </tr> </tbody> </table>	Activities	Existing Land Use, Ha	At the End of Plan Period, Ha	Mined out area	0	9.000	Storage for top soil	0	0	Overburden Dump	0	4.210	Infrastructures : Buildings, roads, etc.	0	0.200	Roads	0	0.500	Green Belt	0	2.170	Others to specify (undisturbed)	25.105	9.025	Total	25.105	25.105
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Total	25.105	25.105																											
8	Cost of Project	Rs.3.60 Crores .																											
9	Brief description of the project	Mining operations will be carried out by Non - conventional Opencast Mechanized Mining by means of excavation through Rock Breakers, Ripper Dozers, etc. Drilling and Blasting will be carried out sporadically as standby measure. A combination of Hyundai 210 – LC Rock Breaker and Ex-300 will be utilized for the Mining. The mined out material will be loaded by the Excavator – RX-300 and transported through AMW tipper combination to the Cement Plant.																											
10	Documents enclosed	1. Form -1,draft Tor, mining plan, G.O,Final EIA Report as per TOR . 2. Minutes of Public Hearing 3. Copy of Precise Area Notification Modified Mining plan along with Progressive mine closure plan approved by IBM																											
11	Production capacity	Lime stone – 1.0 Million Tons Per Annum ROM .																											
12	a) Water	Total : 20 cu.m/day;																											

  
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STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

	requirement KLD b) Source	Domestic Usage : 5 cu.m/day ; Green Belt : 10 cu.m/day D Dust Suppression : 5 cu.m/day Own Borewell and Mine Pit Seepage Water (NOC awaited from CGWA)
13	Quantity of sewage KLD	4.5 cu.m/day
14	Details of STP	Septic Tank (2 x 12 x 0.5 m) followed by a Dispersion Trench (1 x 1 x 1.5 m)
16	Mode of Disposal of treated sewage with quantity	4.5 KLD; On land dispersion
17	Quantity of Solid Waste generated	Plan Period : 53729 cu.m – Top soil 12,34,816 cu.m – Over Burden
18	Mode of Disposal of excavated earth/constru ction debris (cum)	During the Plan Period, Top Soil of 0.53 Lakh M <sup>3</sup> and Overburden (OB) of 12.35 Lakhs M <sup>3</sup> will be generated. While Top Soil will be dumped along the periphery, out of 12.35 Lakhs M <sup>3</sup> OB generated, 8.32 Lakh M <sup>3</sup> will be used for Backfilling and the remaining quantity of 4.03 Lakhs M <sup>3</sup> will be dumped on the Phase-III location for future utilisation.
19	Details of D.G. set with Capacity in KVA	No DG Set Proposed.
20	Air Pollution Control Measures	1. Water sprinkling on the dust generation points, haul roads, etc. 2. Wetting of haul roads periodically. 3. Drilling with dust extractors and use of water jet for dousing the cuttings (wet drilling). 4. Well designed blasting by effective stemming and use of milli second delay detonators.

  
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STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

		<ol style="list-style-type: none"><li>5. Avoiding blasting during high wind periods.</li><li>6. Green belt development along the periphery, haul roads, etc.</li><li>7. Avoiding over loading of trailers/tippers.</li><li>8. Covering of trailers/tippers with tarpaulin during transportation.</li><li>9. Periodical maintenance of trucks/trailers.</li><li>10. Periodical check up of vehicles for 'Emission</li><li>11. Periodical maintenance and replacement of worn out accessories in the mine equipments.</li></ol>
21	Details of green belt (including lawn) area hectares)	It is proposed to plant 1,500 saplings of local tree species in an area of 2.17 Ha. At the Conceptual mining stage, an area of 11.40 Ha will be reclaimed and covered by green belt/afforestation. Thus, a total of 13.57 Ha out of 25.105 Ha will be under Green Belt (54.05% coverage) with about 10,000 trees.
22	Provision for rain water harvesting	The rainwater realization in the mine pit area of 15.58 Ha will be 1,70,757 cu.m/year.
23	Availability of approach road & linkages	Available Metal Road & SH-139
24	Containment of Noise	The source of noise in mining area are due to operation of Rock Breakers, (drilling & blasting), loading & unloading of Top Soil & OB and loading & transportation of Minerals. <ol style="list-style-type: none"><li>1. Deploying mining equipments shall be with in-built mechanism for reducing noise.</li><li>2. Provision of silencers to modulate the noise generated by the machines.</li><li>3. Ground vibrations shall be continuously monitored during Blastings using a Minimate.</li><li>4. Providing sound proof operator's cabin of equipments.</li><li>5. Provision of ear muffs/ear plugs to the Workers in higher</li></ol>

  
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STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

		noise zones. 6. Green Belt with thick foliage along roads and around lease boundary to act as acoustic barriers.																																			
24	EIA Study – Baseline studies Period	January 2016 – March 2016.																																			
25	Public Hearing	Date and Place of meeting – 20.09.2016, S.F.No 319 Part, Kallankurichi village.																																			
25	CSR Activities	<table border="1"><thead><tr><th>Sl. No</th><th>Socio Economic Works</th><th>2013-14 (Rs)</th><th>2014-15 (Rs)</th><th>2015-16 (Rs)</th></tr></thead><tbody><tr><td>1.</td><td>Education</td><td>650157</td><td>3120489</td><td>1014426</td></tr><tr><td>2.</td><td>Infrastructure Development</td><td>24382602</td><td>2540922</td><td>4344193</td></tr><tr><td>3.</td><td>Medical</td><td>90000</td><td>244860</td><td>762099</td></tr><tr><td>4.</td><td>Sports</td><td>10000</td><td>-</td><td>70620</td></tr><tr><td>5.</td><td>Temple</td><td>287500</td><td>495733</td><td>292501</td></tr><tr><td colspan="2">Total - - - -</td><td>2,54,20,259</td><td>64,02,004</td><td>64,83,839</td></tr></tbody></table>	Sl. No	Socio Economic Works	2013-14 (Rs)	2014-15 (Rs)	2015-16 (Rs)	1.	Education	650157	3120489	1014426	2.	Infrastructure Development	24382602	2540922	4344193	3.	Medical	90000	244860	762099	4.	Sports	10000	-	70620	5.	Temple	287500	495733	292501	Total - - - -		2,54,20,259	64,02,004	64,83,839
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26	EMP Budget	Capital cost - Rs.20.00 Lakhs . Social measures - Rs.5.00 Lakhs per Annum																																			
27	Wild life Act	There are no eco sensitive areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Elephant Corridor, Mangroves, Archaeological/Historical Monuments, Heritage sites, etc. within 10 km from the proposed site boundary.																																			

**VALIDITY:-**

The SEIAA-TN hereby accords Environmental Clearance to this project under the provisions of the EIA Notification 2006 as amended, with Validity Co-Terminus with the mining lease period and subject to the following conditions as below.

  
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SEIAA-TN



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

**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.
- 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.
- 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 National Green Tribunal from time to time regarding Mining of Minerals, under 1(a).
- iv) A copy of the clearance letter shall be sent by the proponent to the Local Body, Ariyaluri Taluk, Ariyalur 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.
- 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 Wild Life (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.
- vi) The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
- vii) Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed

  
Chairman  
SEIAA-TN





STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

under Section 16 of the National Green Tribunal Act, 2010.

- viii) All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.
- ix) The company shall stress upon the preventive aspects of occupational health.
- x) 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- xi) 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 at Chennai.
- xii) 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 lifetime of the industry, for implementation of the stipulated environmental safeguards.
- xiii) The State Pollution Control Board should display a copy of 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.

  
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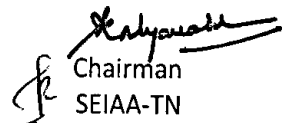


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STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

**B. Conditions for Construction/Mining Phase**

- a) To furnish to the SEIAA for one year period:-
- (i). Report on quality and quantity of ground water to be generated during mining operations and from adjoining areas.
  - (ii). Comparative statement on normal ground water and mined out water with respect to qualities & suitability for agriculture etc for one year period.
- b) 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.
- c) Monitoring of water quality and air quality in and around the project site in the selected monitoring points as mentioned in the EIA report shall be continued regularly involving Academic Institutions.
- d) 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), post-monsoon (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 Central 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.
- e) Hydro-Geological study including Infiltration test shall be conducted by any reputed agency to estimate leachate quantity.
- f) Revised details for leachate generation due to mining activities along with details of collection, treatment and proper disposal shall be furnished.

  
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SEIAA-TN



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

- g) 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 shall be ensured that one AAQ station shall be located in the nearby habitation of Kallankurichi village.
- h) The critical parameters such as RSPM ( $PM_{2.5}$ ,  $P.M_{10}$ ) and NOX in the ambient air within the impact zone, peak particle velocity at 300m 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.
- i) 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.
- j) 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.
- k) 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.
- l) Regular medical check-up/Respiratory tests, for mine workers and nearby residents around the project site involving community medical centre/NIMH shall be conducted, to detect possible diseases associated with limestone mining operations such as silicosis, Silico-tuberculosis, dust related pneumonia, eye diseases etc.
- m) As per norms, health study should be conducted through competent/approved Health organisations and report submitted for one year.

  
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सत्यमेव जयते

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

- n) To address noise level issues, vibration tests shall be conducted as committed and submitted to SEIAA, as Environment Management Plan .
- o) Corpus fund created should be prioritised and utilized for health issues.
- 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 operated.
- q) 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. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- r) 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.
- s) 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 ( $PM_{2.5}$ ,  $P.M_{10}$ ) and  $NO_x$ . 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.
- t) Mine working shall be restricted upto 35.5m bgl Ultimate pi-Conceptual stage as per the present mine plan period. NOC from the State GWA for drawing ground water shall be furnished.
- u) Separate drain shall be constructed in between waste dump (bund) and water bodies, to avoid silting.
- v) 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,

  
Chairman  
SEIAA-TN



सत्यमेव जयते

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

green belt development etc. The drains shall be regularly desilted, particularly after the monsoon, and maintained properly.

- w) 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.
- x) 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.
- y) Conservation plan furnished to protect the scheduled flora and fauna in the core and buffer zone of the project site shall be implemented. Scheduled species of fauna found in the study area shall be monitored closely.
- z) Bio-diversity Management Plan for mine and buffer area shall be prepared in consultation with local DFO and submitted to SEIAA.
- aa) Greenbelt shall be raised including a 7.5m 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. The ultimate area to be planted /afforested shall not be less than 0.4 ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed as per approved mining plan.
- bb) Green belt shall be provided as per norms of MoEF & CC & Gol, in consultation with local DFO.

  
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SEIAA-TN



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

- cc) 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.
- dd) 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 any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance of EC conditions and (iii) System of reporting of non-compliance /violation of environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
- ee) CSR: Audited details pertaining to the mining shall be submitted to SEIAA along with compliance report then and there.
- ff) For CSR activities as per Ministry of corporate affairs notification dated 27.02.2014, amount shall be earmarked
- gg) 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 one year prior to the final mine closure for approval. Mine closure procedure shall be followed as per the approved mining plan.
- hh) Depth of water table of the wells located inside the mining area and wells located around the monitoring area shall be monitored regularly.
- ii) 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 implementation shall be furnished regularly.

  
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STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

jj) The points raised in the Public hearing and concerns shall be addressed without fail, as per action plan submitted to SEIAA.

C. Conditions for Post Construction / 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 1<sup>st</sup> June and 1<sup>st</sup> 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.
- iii. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.
- iv. The implementation of the project vis-à-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.
- v. Data on ambient air, stack and 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 and display data on RSPM, SO<sub>2</sub> and NO<sub>x</sub> outside the premises at the appropriate place for the general public.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

  
Chairman  
SEIAA-TN



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

- vii. Proper house-keeping and cleanliness must be maintained within and outside the plant.
- viii. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately.
- ix. All the precautions are to be observed as per Reg. 106 of MMR, 1961 for safety and security. Face mask, helmets, safety shoes, etc shall be provided to all the workers working in the mining areas and its usage shall be ensured and supervised.
- x. 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).
- xi. 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 5.0 Km radius are well maintained.
- xii. 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.
- xiii. CSR activity shall be implemented as committed by drawing a scheme for social up liftmen 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.

  
Chairman  
SEIAA-TN





STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

- xiv. 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.
- xv. 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<sub>2</sub>, NO<sub>x</sub> (Ambient levels as well as stack emissions) 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 domain.
- xvi. 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 of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore/CPCB/SPCB shall monitor the stipulated conditions.
- xvii. The environmental statement for each financial year ending 31<sup>st</sup> 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.
- xiii. 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.

  
Chairman  
SEIAA-TN



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

- xiv. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xv. 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.
- xvi. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.
- xvii. The SEIAA, TN may cancel the 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.
- xviii. 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.
- xix. 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.
- xx. This clearance is issued with respect to only Environmental considerations and it does not imply that SEIAA approved the way by which lease is granted to the

  
Chairman  
SEIAA-TN



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
ENVIRONMENTAL CLEARANCE

project. While granting lease, the concerned authority shall ensure compliance of relevant Rules, Regulations, Notifications, Government Resolutions, Circulars, Judgments/Orders of Hon'ble Courts and NGT, etc.

- xxi. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

  
Chairman  
SEIAA-TN

Copy to:-

1. The Principal Secretary to Government, Environment & Forests Department,  
Govt. of Tamil Nadu, Fort St. George, Chennai – 600 009.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan,  
CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board,  
76, Mount Salai, Guindy, Chennai - 600 032.
4. The ACCF(C), Regional Office of MoEF,  
34, hepc Building, 1 & 2 nd Floors, Cathedral Garden Road,  
Nungambakkam, Chennai - 600 034.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests,  
Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The District Collector, Ariyalur district.
7. Stock File.

