

HALF-YEARLY MONITORING REPORT- AS ON SEPTEMBER 2016

(In compliance with EIA notification 2006 under Environment (Protection) Act)

FOR

THRIVENI EARTHMOVERS PRIVATE LIMITED



THRIVENI EARTHMOVERS PRIVATE LIMITED

SALIENT FEATURES OF THE PROJECT	
Name of the project	Perindesam
Organization	THRIVENI EARTHMOVERS PRIVATE LIMITED
Field	Aggregates
Type of mine	Semi mechanized Open cast mine
Technology	Heavy earth moving machinery
Environmental clearances	
Letter no & date	Order No. SEIAA/AP/CTR-275/2015 -5608 Dated 25.10.2013
Sanction capacity	14,99,471 Tons per Annum
Mining lease area	22.420
Details of the Study Area	
District & State	Chittoor, Andhra Pradesh
Mandal	K.V.B.Puram
Village	Perindesam
Nature of the Area	Revenue land
Latitude	13 ⁰ 36'06.3.N''
Longitude	79 ⁰ 45' 28.1E''
Address of correspondence	
Name	S.P.Venkatachalam
Designation	General manager
Address	Mr.SPR.Venkatachalam Address: Sy.No.175/12P, Perindesam(Village), KVB Puram(Mandal) Chittoor (District), Andhra Pradesh (State).
Pin code	517643
Telephone number	+91-9994443399
Life of the project	10 years
Date of opening	Not yet started.
Balance life	10 years
General Climatic Conditions	
Maximum Temperature	44°C
Minimum Temperature	19 °C
Annual Rainfall	850 mm
Wind Pattern	NE to SW
Accessibility	
Road Connectivity	The Q.L area connected by B.T road with internal earthen road from Matam village at a distance of 1.7 km
Rail Connectivity	The nearest Railway station is located at Srikalahasthi, at a distance of 25 km from the applied area.
Port	Tirupati Port is about 60km
Nearest Village	Perindesam village is 2 km from ML area
Nearest Town	Srikalahasthi 25 km
Historical / Important Places	
Archaeologically Important Site	Nil within the study area

Historically Important Site	Nil within the study area
Sensitive Places	Nil within the study area
Sanctuaries / National Parks	Nil within the study area
Nearest Forest	Ramapuram R.F 3.6km. Anjuru R.F 3.5 km.
Land requirement	
Total requirement (mine take area)	22.420 Ha
Forest land involved	No forest land
Non forest land	Hilly area
Agricultural land	Not applicable
Land acquired so far (Surface Rights)	22.420 Ha
Statutory clearances	
Consent for establishment	OrderNo.CTR-667/PCB/ZOK/CFE/2014-945. Dated 10.02.2014
Consent for operation	OrderNo.CTR-669/APPCB/ZO-KNL/CFO/2014-910 Dated 15.11.2014
CFO Validity	31.01.2018
Mining lease	22.420 Ha
Others (specify)	-----
R& R Involved	Not involved

HALF YEARLY COMPLIANCE REPORT OF THRIVENI EARTHMOVERS PRIVATE LIMITED.

Environmental Clearance Conditions As On September 2016

Sl. No	Condition	Compliance Status
1	Wet drilling shall be adopted to control dust emissions. Delay detonators and shock tube initiation system for blasting shall be used so as to reduce vibration and dust.	<ul style="list-style-type: none">❖ Non electrical delay detonators & shock tube initiative system for blasting is in practice for effective control blasting. The desired blasting design is followed as per the recommendation, studied by the CIMFR, Ranchi.❖ Wet drilling with Pneumatic/Hydraulic drilling machine with inbuilt dust extraction cum collection system is being in practice to control the dust generations.
2	Greenbelt shall be developed along the boundary of mining lease area with tall growing trees, with the native species in consultation with the local DFO/Agriculture Department.	<ul style="list-style-type: none">❖ Greenbelt around the lease boundary with suitable native species has been proposed in consultation with the local DFO/ Agriculture Department. <p>The present coming season is suitable for plantation activity.</p>
3	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.	<p>As it is a virgin lease there is no mining activity in the mine.</p> <p>Fugitive Dust is controlled by the following methods;</p> <p>Permanent auto-fixed water sprinkling system</p> <p>Mobile water sprinkling system</p> <p>Time to maintenance of the same is being carried out.</p>

4	<p>The proponent shall take appropriate measures to ensure that the GLC shall comply with the revised NAAQ norms notified by MoE&F, GoI on 16.11.2009.</p>	<p>The project has provided auto fixed water sprinkling systems. The photo of the permanent sprinkler system is attached</p> <p>The monitoring of AAQ is being done in the core as well as buffer zone of the ML area. The monitoring report for the period April 2016 to September 2016 reveals that the parameter like PM10, PM2.5, SO₂ and NO_x are well within the norms as per NAAQs notifications made by the MOEF, GOI. The same has been attached</p>
5	<p>The following measures are to be implemented to reduce an pollution during transportation of mineral:-</p> <ul style="list-style-type: none"> ❖ Roads shall be graded to mitigate the dust emission. ❖ Water shall be sprinkled at regular interval on the main haul road and other service roads by water sprinklers to suppress dust. 	<ul style="list-style-type: none"> ❖ As it's a virgin lease there is no mining activity has taken place in mines & we are abiding the above said conditions.
6	<p>The following measures are to be implemented to reduce Noise pollution:-</p> <ul style="list-style-type: none"> ❖ Proper and regular maintenance of vehicles and other equipment ❖ Limiting time exposure of workers to excessive noise. ❖ The workers employed shall be provided with protection equipment and earmuffs etc. ❖ Speed of trucks entering or leaving the mine is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks 	<ul style="list-style-type: none"> ❖ Proper maintenance and regular monitoring of each and every vehicle is done to meet the air and noise pollution norms. The noise quality report of the same has been attached ❖ Shift working is implemented to avoid noise exposure besides these earmuffs and earplugs were provided to the workers. Proper enclosures were also installed near the noise generating equipment's.
7	<p>Measures should be taken to comply with the provisions laid under Noise Pollution (Regulation and Control) (Amendment) Rules, 2010; dt. 11.01.2010 issued by the MoEF, GOI to control noise to the prescribed levels. Workers engaged in operations of HEMM, etc should be provided with ear plugs/muffs.</p>	<ul style="list-style-type: none"> ❖ Appropriate personal protective equipment's are provided for the working employees in noise zones. Regular noise level is being maintained. ❖ Plantation of native species is being developed in phase manner to suppress the noise and dust.
Water Pollution		

8	<p>The source of water is ground water. Total water requirement is 20 KLD. Out of that, 16 KLD is used for dust suppression; 2.0 KLD is used for development of green belt; 2.0 KLD is used for domestic purpose. Wastewater generated from the domestic section is to be disposed into septic tank followed by soak pit.</p>	<p>As it is a virgin lease there is no mining activity has taken place and no withdrawal of water</p>
9	<p>Garland drain and siltation ponds of appropriate size should be constructed for the working pit to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted, particularly after monsoon, and maintained properly.</p>	<p>Noted. As it is a virgin lease no mining has been taken place and there is proposal for the construction of Garland drain and siltation ponds of appropriate size for the working pit to arrest flow of silt and sediment.</p>
10	<p>Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells by the project proponent in and around project area in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Data through collected should be sent at regular interval (to MoEF, CGWA and CGWB, Southern, Region, Hyderabad</p>	<p>Quality of groundwater and level is being monitored during every season, and the analysis report is being submitted to the consent authority at regular interval.</p>
11	<p>Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Suitable measures should be taken for rainwater harvesting.</p>	<p>The project has planned for implementation of the suitable rain water harvesting measures in the phased manner.</p>
12	<p>Permission from the competent authority should be obtained for drawl of ground water required for this project.</p>	<p>The project is under process for filing the application towards obtaining the ground water.</p>
Solid Waste		
13	<p>Topsoil, if any, shall be stacked properly with proper slope with adequate measures and should be used for plantation purpose.</p>	<p>There is no generation of the top soil during present mining operations. In case of top soil generation generated in future, it will be stored in an earmarked area.</p>

14	<p>The following measures are to be adopted to control erosion of dumps:-</p> <ul style="list-style-type: none"> ❖ Retention/toe walls shall be provided at the foot of the dumps. ❖ Worked- out slopes are -to be stabilized by planting appropriate shrub/grass species on the slopes. 	<ul style="list-style-type: none"> ❖ As it is a virgin lease there is a proposal for construction of Retaining wall at the toe of the dumps with proper dimensions. ❖ Dumps will be stabilized with the application of coir matting and grass seeds applications.
15	<p>Waste oils, used oils generated from the EM machines, mining operations, if any, shall be disposed as per the Hazardous Wastes (Management, Handling, and transboundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by APPCB.</p>	<p>We will abide by said condition.</p>
General conditions		
16	<p>This order is valid for a period of 10 years OR the expiry date of mine lease period issued by the Government of A.P., whichever is earlier. It was reported that the life of the mine is 10 years.</p>	<p>We will abide by the said conditions.</p>
17	<p>"Consent for Establishment" & "Consent for Operation" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act to carry on mining.</p>	<p>Consent for establishment has been granted vide Order No.CTR667/PCB/ZOK/CFE/2014-945 Dated: 10-02-2014 Validity 5 years. . Accordingly consent for operate has been granted Vide Order No.CTR669/APPCB/ZO-KNL/CFO/2014-910 Dated 15-11-2014 Validity up to 31-01-2018.</p>
18	<p>No change in mining technology and scope of working should be made without prior approval of the SEIAA, A.P. No further expansion or modifications in the mine shall be carried out without prior approval of the SEJAA, AP MoEF, GoI, New Delhi, as applicable.</p>	<p>There is no change in the scope of work.</p>

19	<p>The half-yearly compliance reports in respect of the terms and conditions stipulated in this order & monitoring reports shall be uploaded in the website of the project periodically. It shall simultaneously be submitted in hard and soft copies to the SEIAA and Ministry's Regional office, Chennai on 1st June and 1st December of each calendar year.</p>	<p>As it is a virgin lease the Project is here with submitting the six monthly compliance reports in respect of the terms & conditions stipulated there in. The reports of the same is being uploaded in the company's website.</p>
20	<p>Officials from the Regional Office of MoEF, Chennai, who would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office to MoEF, Chennai.</p>	<p>We will extend all our cooperation during any such inspections by the Authority.</p>

21	<p>Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.</p>	<p>The monitoring is being carried out by third party accredited by NABET/NABL Creative Engineers& consultants –Chennai. The monitoring of AAQ is being done in the core as well as buffer zone of the ML area, There are 4 no. of monitoring station in core zone as well as buffer zone of the ML area i.e. Project Office (core zone-up wind direction) Sub Contractor Camp (core zone-down wind direction) Matam & Rangaiahgunta, Monitoring of AAQ is carried out twice per station. The monitoring report for the period April - 2016 to September -2016 reveals that the parameters like PM10, PM2.5, SO2 and NOx are well within the norm.</p> <p>Locations of the stations have been finalized based on the metrological data and topographical features and in consultation with APSPCB</p>
22	<p>Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Chennai and the State Pollution Control Board! Central Pollution Control Board once in six months.</p>	<p>It is being submitted on six monthly basis. The data of the same is being maintained.</p>
23	<p>Personnel working in dusty areas should wear protective respiratory devices and them. Should also be provided with adequate training and information on safety and health aspects.</p>	<ul style="list-style-type: none"> ❖ Good housekeeping is maintained. ❖ Earplugs / muffs are provided to Workers engaged in Operations of all noise prone areas, besides having acoustic enclosures for all machine operating cabins. <p>The photos are attached</p>

24	<p>The project proponent shall ensure that no natural water course and/ or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first Order streams, if any, originating from the mine lease shall be taken.</p>	<p>No natural stream/water course passes through the lease hold area. However adequate safe guard measures like check weir, de-silting pit/pond will be provided before discharge of mines water to outside.</p>
25	<p>Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed</p>	<ul style="list-style-type: none"> ❖ Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken periodically for permanent and outsider employees along with the pre-medical examination of persons employed, who are engaged in the process of mining & are likely exposed to dust to observe any contractions due to exposure to dust. ❖ First aid center is established at project site. ❖ Sanitation & first aid facilities are arranged.
26	<p>A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization</p>	<p>We have separate environment management cell headed by Dy. Manager-environment with qualification M.Sc. in Environmental science. He is directly under control of project head.</p>
27	<p>The funds earmarked for environmental protection measures (Capital cost of Rs 7.90 lakhs & Recurring cost of Rs. 3.20 lakhs/annum) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Chennai.</p>	<p>The funds earmarked for environmental Protection are being utilized for the same only.</p> <p>The details of the same are attached</p>
28	<p>The project proponent shall submit the copies of the environmental clearance to the Heads of local bodies, Panchayat and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.</p>	<p>It has been complied with intimating the letters to local Panchayat, & other concerned bodies etc.</p>

29	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P.	This condition is Compiled. Advertised in two local news papers Andhra Jyothi dated on 25 th December 2013 & Andhra Prabha 27 th December 2013.
30	The SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Company shall cooperative and shall extend full support to the concerned authorities.
31	The proponent shall obtain all other mandatory clearances from respective departments.	All the necessary permissions have been obtained from the competent authorities.
32	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	We are abiding by the said conditions.
33	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.	Noted.
34	Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted & Being followed.
35	The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted & being followed.

36	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 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.
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