



भारत सरकार/Government of India
खान मंत्रालय/Ministry of Mines
भारतीय खान ब्यूरो/Indian Bureau of Mines
हैदराबाद क्षेत्रीय कार्यालय/Hyderabad Regional Office



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Room No.603, 6th Floor,
CGOTowers, Kavadiguda,
Secunderabad.-50008.
Date:01.10.2019

To
Shri T.Meenachi Sundaram,
M/s Sri Ramamaruthi Vermiculite Mine,
310 Sidco Aiema Tower, 1st.Main Road,
Ambattur Industrial Estate,
Chennai – 600 058 T.N. State.

Sub: Submission of Modified Mining Plan of Sri Ramamaruthi Vermiculite Mine of M/s Sri Ramamaruthi Vermiculite Mines, over an extent of 10.87 ha in Rachapalem Village, Gudur Mandal, SPSR Nellore District of Andhra Pradesh.

Ref: Your letter No. nil dated 20.08.2019.

Sir,

With reference to your letter cited above on the subject, the inspection of the mine was carried out by Shri S.K.Muduli, JMG along with Sri T.Meenachi Sundaram, Lessee, Srinivas, Manager and Sri P.R.Mishra, Qualified Person on 23.09.2019 and found certain deficiencies which were forwarded to you and your Qualified Person on respective e.mail ids i.e., prod@srvm.co.in and earth_environment2008@yahoo.com.

02. You are advised to attend the deficiencies as per the annexure and resubmit the document, complete in all respects, in three bound copies along with soft copy in the form of CD (2Nos.) In this regard you are also advised to submit the Financial Assurance in the form of Bank Guarantee for the area put on use for Mining and allied activities @ Rs.Three lakhs/hectare for category 'A' mines provided that the minimum amount shall be Rs.Ten lakhs as per the provision of Rule 27(1) of MCDR, 2017 at the time of submission of final copies of the document within 15 (fifteen) days from the date of issue of this letter, failing which the document will be disposed without giving any further opportunity.

03. The para-wise clarification & the manner in which the deficiencies are attended should be given while forwarding modified document.

Yours faithfully,

(Shailendra Kumar)
Regional Controller of Mines

Copy to Sri P.R.Mishra, Qualified Person for information and necessary action.

(Shailendra Kumar)
Regional Controller of Mines

मूलपतिपरनहीं
खाननियंत्रक (द), भारतीय खानब्यूरो, बेंगलुरु।

(शैलेन्द्र कुमार)
क्षेत्रीय खाननियंत्रक

SCRUTNY CUM INSPECTION REPORT OF MODIFICATION OF MINING PLAN OF SRI RAMAMAURTHY VERMICULITE MINE OF M/S SRI RAMAMURTHY VERMICULITE MINE SPEARD OVER AN AREA OF 10.87 HECTRES IN RACHAPALEM VILLAGE, GUDUR MANDAL, NELLORE DISTRICT IN ANDHRA PRADESH.

General

- 1) The name of the mine to needs to be submitted as Muruga Vermiculite Mine.
- 2) Supplementary lease deed to be enclosed towards extension of the lease period as per section 8A of MMDR Act-1957. Either wise a letter from the State Government intending to extend the lease period up to 50 years as per section 8A of MMDR Act-1957 should be submitted.
- 3) Copies of initial GO to be submitted. Copy of lease deed along with the legible copy of the proceedings to be submitted.
- 4) Details of Nominated owner to be submitted and declaration towards nominated owner to be submitted.
- 5) State Govt authenticated Lease sketch along with boundary pillar co-ordinates to be submitted.
- 6) Review of mineral reject / sub grade, dump mining, PMCP measures and back filling needs to be submitted. Review of production needs to be submitted correctly. Reasons need to be submitted for deviation.
- 7) Status of compliance of violations pointed out by IBM to be submitted.
- 8) Indicate and give details of suspension /closure/ prohibitory order issued by any Government agency under any rule or Court of law.
- 9) Reason for modification need to be submitted.

Geology

- 10) Detailed local geology should be furnished detailing the nature of mineral, number of veins, veins width, depth of proved ore and other associated minerals. The general strike and dip and other structural aspects if any should be furnished.
- 11) Details of Trial pit like Trial pit no, dimension, top & bottom RL, co-ordinates to be submitted. The lithologs of trial pits and pits need to be submitted along with the chemical analysis. Details of Pit sampling like pit sample no, location, thickness of sample, top & bottom RL of samples collected from pit need to be submitted.
- 12) The features in surface plan are not matching with the positions as in the mine and the levels are also not tallying. The survey needs to be carried out again and only all the existing features needs to be demarcated correctly. Geological map to be updated based on the Vermiculite Mineral exposure in the existing quarries and trenches, trial pits dug in 2018-19. The Geological section is not matching with the field condition and occurrence of Vermiculite mineralization. The Geological section to be prepared on the basis of updated Geological Plan and the UNFC coding to be shown.
- 13) Since the existing quarries, trenches and trial pits dug in 2018-19 form the basis of exploration, the detailed meter-wise litho logs of the quarries and trial pits should be furnished.
- 14) The recovery study report enclosed does not contain any information about the grade wise recovery and also recovery above the cut off grade and below the cut off grade. Thus the vermiculite mineral recovery from the mineralised zone needs to be again conducted and report needs to be submitted.
- 15) In the parameters considered for reserves/resources estimation, the cut off grade to be submitted for chemical and physical properties else the attributes based on which vermiculite is considered as marketable should be furnished. UPL depth to be submitted and UPL boundary to be demarcated in the Plans and sections.
- 16) The Laboratory analysis reports of all the samples needs to be submitted. 10% check samples needs to be analysed from NABL/Govt Laboratory and report needs to be

submitted. NABL accreditation certificate of the laboratory which carried out chemical analysis should be furnished.

- 17) The category of the deposit should be designated based on MEMC Rules, 2015. It is observed that a public road is passing through the area. 50m safety barrier should be marked on all plans & sections and accordingly, blocked up resources if any should be estimated. In geological axis, the distance between the existing trial pits / trenches and pit sampling location should be furnished to justify the scale of exploration designated. The distance considered for G1 and G2 scale exploration and number of trial pits / trenches coming under such category should be furnished.
- 18) With respect to all the above mentioned points in Geology section the reserves/resources needs to be established as per MEMC Rules-2015.
- 19) Exploration is to be proposed to explore the potential mineralised area upto G1 level. Further year wise area proposed to be explored in different level needs to be submitted.

Mining

- 20) Briefly describe the existing as well as proposed method of working with all design parameters indicating on plans /sections.
- 21) Mining has been done in a erratic fashion as no benching has been made and steep wall has been formed due to mining. Proposal to be submitted for systematic and scientific mining operation. The year wise production and development sections need to be prepared again on the updated geological sections. In the year-wise tentative Excavation details pit no to be mentioned.
- 22) Details of existing mining pits/quarries to be submitted with pit/quarry no, dimension, co-ordinates for block wise, max and min level.
- 23) Briefly describe the layout of mine workings, pit road layout, the layout of faces and sites for disposal of overburden/waste along with ground preparation prior to disposal of waste, reject etc. Location of the year wise proposed mining area needs to be submitted. UPL or ultimate size of the pit is to be shown for identification of the suitable dumping site.
- 24) The detailed calculation for requirement of manual labour should be furnished.
- 25) All the existing waste and mineral dumps need to be surveyed again and their details like No, dimension, co-ordinate, volume, type of mineral/waste and quality need to be submitted correctly. The grade/quality of each mineral dump needs to be established and submitted.

Stacking of Mineral Reject/Sub Grade Material and disposal of Waste

- 26) Backlog of backfilling should be proposed mentioning the dimension, quantity, height and co-ordinates of the area to be backfilled.
- 27) At no of places the 7.5m safety zones have been mined out. Backfilling of 7.5m safety barrier zones should be proposed.
- 28) Proposal for shifting / rehandling of the dump lying within the 50 m safety barrier zone and 7.5m safety zone needs to be proposed.
- 29) Physical and chemical requirement of different type industries in which Vermiculite is used to be submitted at chapter 5.

Progressive Mine Closure

- 30) The protective measures to be proposed for waste dumps should be shown on relevant plans and mentioned in text. Dimension, co-ordinates to be furnished in the text.
- 31) Year wise Plantation and Environmental monitoring needs to be proposed.
- 32) As the survey needs to be carried out again and surface plan and PMCP needs to be updated, the bank guarantee amount is to be calculated based on the area put to utilization in the PMCP plan. The minimum amount for which the bank guarantee is

required wrt the last approved document as per the rule has not been submitted to this office.

33) **Plates**

- 34) In Key Plan, the predominate wind direction should prominently shown. The orientation of outer extremity of the lease area should be shown. The population of villages, flow direction of river / nala the places connected by roads and railway line going out of the places should be shown. The land use shown should be indicated in index.
- 35) A legible printout of the lease sketch should be furnished.
- 36) In Surface Plan, the date of survey and name & signature of the surveyor should be shown. It is observed that 7.5m safety barrier zone has been disturbed due to extension of quarries at number of places in the lease area both in northern and southern direction. The areas should be proposed for backfilling. Mineral stack and waste have been shown encroaching the 7.5m safety barrier zone. The stacks and waste dump should be proposed for re-handling and removed from 7.5m safety barrier zone.
- 37) In Geological Plan, dip and strike of the mineral should be shown. Future exploration should be proposed along the strike length of veins to prove the ore at depth in grid pattern. The proposed financial year and type of exploration proposed should be indicated.
- 38) Geological sections should be updated. Ultimate pit limit should be marked in geological sections to determine the resources blocked up.
- 39) In year-wise production and development plan, proposed production should be restricted to zone of exploration zone with G1 and G2 area. The year-wise quarry position should be shown with reduced level of proposed benches.
- 40) In Environment plan and other plans, the north orientation should be same as lease sketch.
- 41) In Reclamation and rehabilitation Plan, proposal for backfilling of the 7.5m safety barrier zone disturbed by extension of quarries should be furnished. The 7.5m safety barrier zone encroached by development of stacks and waste dumps should be proposed for re-handling. The reduced level of year-wise backfilling should be furnished. Protective measures for existing waste dumps should be proposed. Accordingly, details should be furnished in text.
