



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:17.03.2021..

To  
Sri Dugar Vermiculite (P) Ltd.,  
Dugar Towers,7<sup>th</sup>.Floor,  
No.34(123), Marshalls Road,  
Egmore, CHENNAI –600 008..

Sub: Submission of Modification of Mining Plan in respect of Dugar Vermiculite Mine of.M/s. Dugar Vermiculite Private Ltd. over an extent of 2.707 ha. in Sy.Nos. 1/P(A),1/P(B),96/1, 96/3P & 96/5P of Palicherla Village, Gudur Mandal, SPSR Nellore District of Andhra Pradesh submitted under Rule 17(3) of MCR 2016.

Ref: Your letter No. nil dated 30.11.2020 received in this office on 17.02.2021.

Sir,

With reference to your letter cited above on the subject, the site inspection was carried out by Sri S.K.Muduli, JMG. on 06.03.2021 accompanied by Shri K Sumanth Babu, QP, Sri M Tikam Chand Dugar, Lessee representative. The Modification of Mining Plan in respect of Dugar Vermiculite Mine has been examined and found certain deficiencies as given in Annexure. The same has already been forwarded vide email id of your Qualified Person and yourself, as furnished in the document [vermiculite@dugar.in](mailto:vermiculite@dugar.in) and [vermiculite@dugar.in](mailto:vermiculite@dugar.in) .

02. You are advised to attend these 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 (4Nos.). In this regard, you are directed to submit the Financial Assurance in the form of Bank Guarantee for the area put to 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 K Sumanth Babu, QP Old No. 170/2, New No. 46, Big Street, Triplicane, Chennai – 600 005  
- for information & necessary action.

(Shailendra Kumar)  
Regional Controller of Mines

मूलपतिपरनहीं  
खाननियंत्रक (द), भारतीय खानब्यूरो, बंगलुरु।

(शैलेन्द्र कुमार)  
क्षेत्रीय खाननियंत्रक

**SCRUTNY OF MODIFCATION OF MINING PLAN OF DUGAR VERMICULITE MINE-III OF M/s DUGAR VERMICULITE PRIVATE LIMITED SPEARD OVER AN AREA OF 2.707 HECTRES IN PALICHARLA VILLAGE GUDUR MNADAL, SPSR NELLORE DISTRICT IN ANDHRA PRADESH, DATE OF INSPECTION-06.03.2021**

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**General**

- 1) The mining Plan document should be prepared as per the format prescribed in IBM Manual on appraisal of Mining Plan-2014.
- 2) The Lease sketch dully authenticated by state govt needs to be submitted and all the plans should be prepared based on the state govt authenticated lease sketch.
- 3) The reason for modification needs to be submitted at column 3.6.
- 4) Board of Director's resolution to be submitted for the nominated owner in Dugar Vermiculite Private Limited letter head.
- 5) Kml files in respect of boundary pillars, land put to use and proposal should be submitted separately.
- 6) Mine Drainage chapter should be attended and submitted. Progressive Mine Closure Plan should not be submitted as a separate annexure as it is already there as a part in the Format of Mining Plan.
- 7) Proposals submitted in text should also be demarcated in plans.
- 8) The Plan Period and Proposal period should be submitted correctly and accordingly the proposal should be submitted.
- 9) Repetition needs to be avoided.

**Details of approved Mining Plan / Scheme of Mining**

- 10) Review of last approved Scheme of Mining and also for the lapsed period needs to be submitted in respect of exploration, excavation, reclamation.
- 11) Status of compliance of violations pointed out by IBM needs to be submitted.
- 12) Indicate and give details of suspension /closure/ prohibitory order issued by any Government agency under any rule or Court of law, if any.

**Geology**

- 13) Year wise exploratory trial pits carried out and details of mining pits needs to be submitted.
- 14) Exploratory drilling to be proposed in 2021-22 for ascertaining the depth continuity and also to explore the potential mineralized area in G-1 level of exploration. Further year wise area proposed to be explored in different level needs to be submitted.
- 15) Area explored under different level of exploration needs to be marked on the geological plan and UNFC code for area considered for different categories of reserve/resources estimation may also be marked on geological cross sections.
- 16) Pit limit boundary needs to be shown in the surface plan and UPL to be demarcated in the sections based on the extent and depth of mineralization proved by exploration.
- 17) All the Parameters of reserves/resources needs to be submitted. Basis for considering the Bulk density needs to be submitted. As the mineral is processed outside the lease area and it has been proposed to despatch the entire ROM to processing plant situated outside the lease area, objective of applying the recovery percentage for estimation of Resources/Reserves to be justified. Also the details of recovery wrt earlier mining history should be submitted.
- 18) Details back up of estimation of reserves/resources needs to be submitted.

- 19) Submit the feasibility study report as specified under the UNFC field guidelines. UNFC axis wise justification needs to be submitted correctly and be submitted in the feasibility study report.
- 20) No of trial pits in North East and South West block have not been shown in the Surface and Geological Plan. The lithology in the Geological Plan needs to be modified on the basis of trial pits. Trial pits lithologies and meter wise sample chemical analysis needs to be submitted. The Laboratory analysis reports of all the trial pit samples needs to be submitted. 10% check samples needs to be analysed from NABL/Govt Laboratory and report needs to be submitted.
- 21) The reserves/resources has been estimated in excess. As the width of the Vermiculite Vein in SW block is only of 4m and height maximum upto 5m. The reserves/resource estimation needs to be done correctly.

### **Mining**

- 22) Existing mining pit details needs to be submitted as per the updated surface plan.
- 23) Bench development parameters should be proposed as per the statute and Bench width to be proposed such as the mining machinery can ply in the bench.
- 24) Insitu Tentative Excavation table should be submitted as per the format.
- 25) Mechanised mining in South West block by 1.5m height bench and width of 3m needs to be justified. In this regard status of obtaining the HEMM permission from DGMS be submitted.
- 26) Briefly describe the existing as well as proposed method of working with all design parameters indicating on plans /sections.
- 27) Year wise area to be utilised for mining, top soil , separate dumping for Schist(waste) and Pegmatite, afforestation to be submitted.
- 28) During inspection vermiculite mineral dump has been observed in NE Block , it co-ordinates, dimension and volume needs to be submitted in the text.

### **Stacking of Mineral Reject and sub grade material and Disposal of waste**

- 29) Location of waste and top soil dumping to be submitted with co-ordinates and the proposed site is to be demarcated in the year wise production and development plan. As the dumping area is not proved for the absence of mineral, all the waste and top soil dump need to be mentioned as temporary dump. Proposal to store top soil, Pegmatite and Schist separately should be submitted.
- 30) Configuration and sequence of year wise build up of dumps along with the proposals for protective measures need to be submitted in text and plan.
- 31) Top soil is proposed to be dumped and spreaded along the 7.5m safety zone only for Green Belt Development purpose and its location co-ordinates needs to be submitted.
- 32) All the existing waste dumps with its number, location co-ordinates, dimension and estimated volume needs to be submitted.

### **Processing of ROM and Mineral Reject**

- 33) Material balance chart with a flow sheet or schematic diagram of the processing procedure indicating feed, product, recovery, and its grade at each stage of processing needs to be submitted.

### **Progressive Mine Closure Plan**

- 34) Separate submission of PMCP chapter as annexure is not required. Base line environmental information be submitted.

- 35) Environmental protection measures like afforestation, siltation pond, retaining bund, garland drain, environmental monitoring to be proposed. Details like quantity, frequency, dimensions and their locations to be submitted in text and demarcated in the plan.
- 36) The category wise area put to use needs to be demarcated in the PMCP plan. PMCP plan needs to be updated for area already proposed and put to use for top soil, waste dumping, area encroached by habitation, area for plant needs to be demarcated in the PMCP Plan and the details in PMCP table needs to be submitted accordingly. The amount of bank guarantee to be calculated based on the updated PMCP plan.

**Plans and Sections**

- 37) In the Key Plan the revised topo sheet no needs to be submitted. Contour lines need to be demarcated.
- 38) Surface Plan is not updated. In East block the encroachment of village habitation needs to be updated in surface plan. The pit position, the Processing Plant Position in west block has not been demarcated correctly in the plan and the Green belt is not at all shown in west block.
- 39) In the Geological plan all the geological features needs to be demarcated. The lithological units shown as Feldspar should be mentioned as Pegmatite. In the Geological section proper indexing should be done.
- 40) Environmental plan needs to be corrected as the other mines; plant, agricultural lands, habitations and other features have not been demarcated. Further the Environmental monitoring buffer zone location to be demarcated in the Key Plan and core zone location to be demarcated in the reclamation plan.

**Annexures**

- 41) All the annexures need to be submitted and numbering to be corrected.

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