



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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No. 659(558)/Fel/Qtz/Vr07/Nlr

To

Shri G Kalyana Chakravarthy Naidu,
S/o Late Shri G Chakravarthy Naidu,
H.No. 19-8-169/20, SBI Colony,
Thirupathi (Urban) Chittor District, A.P.

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

Date:10.09.2018

Sub: Submission of Review of Mining Plan in respect of Quartz, Feldspar and Vermiculite mine over an extent of 4.978 ha of Sri G Sree Kalyana Chakravarthy Naidu, in Sy.No. 356/P of Utukuru (V) Sydapuram (M) SPSR Nellore district, A.P. submitted under Rule 17(2) of MCR, 2016.

Ref: Your letter no Nil dated.20.08.2018.

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 G Sree Kalyan Chakravarthy Naidu, Lessee, Sri S.N. Suresha Qualified Person and Sri Shivaya, Mines Manager on 03.09.2018 and found certain deficiencies as given in Annexure. The same scrutiny comments have already been forwarded to you and your Qualified Person on respective e.mail ids i.e., sri_nani78@yahoo.com suresha.geologist@gmail.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 s 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 and @ Rs.Two Lakhs/hectare for category 'B' mines provided that the minimum amount shall be Rs.Five 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 S.N. Suresha, Qualified Person for information and necessary action.

(Shailendra Kumar)
Regional Controller of Mines

मूल पति पर नहीं

खान नियंत्रक (द), भारतीय खान ब्यूरो, बेंगलुरु।

(शैलेन्द्र कुमार)
क्षेत्रीय खान नियंत्रक

Inspection report cum Scrutiny comments on the review of mining plan in respect of Chkravarty Vermiculite Mine of Sri G.Sree Kalyan Chakravarthy Naidu at Utukuru village, Sydapuram Mandal, Nellore district. over an area of 4.978 hectare, Date of Mine inspection – 03.09.2018

1) General

- a) Co-ordinates of mining lease boundary as given in text and surface and surface geological plans are not matching with that of the boundary pillar co-ordinates given in the authenticated lease sketch.
- b) The direction has not been marked in the lease sketch enclosed with the Lease deed. Further also in the lease sketch having boundary pillar coordinates authenticated by the competent authority is also not having the direction marked. Thus a lease sketch with boundary pillar co-ordinates(in WGS 84 mode) and direction marked and authenticated by the competent authority of state Govt be submitted.
- c) All the plans be prepared on UTM grid and also showing the previous approved local co-ordinates. Further the local grid as in the surface plan and surface geological plan of the last approved mining plan document is not matching with that of the surface plan and surface geological plan submitted in the current draft mining plan document submission.
- d) ABM is not traceable in the field. The BM be established within the mining lease by transferring the same from nearby railway station or any Survey of India and the area be resurveyed for level as per the BM to be established newly and the levels be modified in all the plans and sections.

The screening plant, ROM stock yard near screening plant and also ROM stacked at South, NW and West part of the mining lease, numbers of trial pits and bunds along the boundary lines have not been demarcated in the surface and surface geological plan. In southern part of the lease the pegmatite body has been shown in excess without any exploration thus the pegmatite body should be shown upto the point of the trial pit made in the south where pegmatite has been found. Also in the trial pits 3 and 3A dug in western part of the mining pit are having vermiculite. The Vermiculite occurrence in TP-6 is shown in the Eastern side of pit in the geological plan but actually it is lying in the western side of the TP-6. In view of these comments the mining lease area be surveyed again and the surface and surface geological plan & geological sections be updated.

2) Review

- a) Temperature and rain fall related data sources have not been mentioned.
- b) In the review of exploration the total no of trial pits found to exist more in no than reported in text and as shown in the surface and surface geological plan. The year of making the trial pit, their locations in UTM and the top, bottom level in mSL, be furnished.
- c) All the annual returns submitted to State be enclosed as Annexure.
- d) The details furnished in the review of production is not matching with the register maintained at mine site. As annual returns has not been submitted to IBM since the start of mine, year wise and mineral wise production/despatch figure dully authenticated by the concerned ADMG be submitted. The location wise production and development review be submitted.
- e) Review of waste development be submitted.
- f) Reviews of status of compliance of violations pointed out by IBM and also furnish the details of suspension made by IBM earlier along with its status.

3) Geology & Exploration

- a) The mineralized area explored be submitted under geological level of exploration.
- b) Recovery study of Quartz, Feldspar and Mica from Pegmatite and further recovery study of vermiculite from contact zone by any NABL lab or Govt Institute/University be submitted.
- c) Lithological logs of all the trial pits be submitted with chemical analysis.
- d) Exploration be proposed for proving the non mineralization of the screening plant and waste dump area. Further exploration proposal be proposed to explore the entire mineralised area in grid pattern as per MEMC Rules under G1 level of exploration.
- e) The geological section are not drawn correctly due to the reasons that no of trail pits are not projected, the depth wise extension of mineralised zone considered for reserves/resource estimation has been considered more than the actual depth of the trial pit and existing mining pit the levels in the section are not as per actual, the UNFC wise category has not been mentioned in the sections.
- f) Axis wise UNFC justification for categorization of reserves and resources be submitted correctly and be submitted as per the UNFC guidelines. In the feasibility axis justification, in the environment sub head the

details of EC, CFE, CFO not discussed, the cost per tonne of production be submitted as per the format of Annual returns, the marketing and Economic viability be discussed, processing discussed. In the economic axis the specific end use grade be discussed. Discuss the ultimate pit limit and ultimate pit depth considering the economical, technical limitations and explored depth of mineralization. The same be shown on the conceptual plan and sections.

- g) Parameters considered for reserves / resources estimation be furnished. In this regard the bulk density, recovery, threshold value, cut off grade and Ultimate pit limit, pit slope and bench slope be discussed.
- h) 10% check samples have not been analyzed from NABL accredited laboratory.
- i) There is occurrence of Mica within the lease, thus its reserves/ resources be estimated.
- j) The level wise explored area along with resources of Quartz, Feldspar, Mica and Vermiculite has not been furnished.
- k) The reserves / resource has been estimated in excess by considering more depth of mineralization without any exploration, considering more influence length of mineralization.
- l) Vermiculite is occurring at the western contact of pegmatite and schist as per the trail pits dug, which be demarcated in the Surface Geological plan.

4) Mining

- a) The ROM dump details along with its stacked quantity be furnished.
- b) The waste dump location, coordinates, quantity, height be furnished.
- c) In the layout of mine working a table mentioning the amount of advance to be made length wise, width wise, height, co-ordinates, level to be mined (in mRL), direction of movement, Volume and Quantity be furnished. The bench and road layout be shown on the plan and sections. The year wise production and development plan be prepared on latest updated and the backup calculation for year wise production and development be corrected as per the new survey. Further the ore: waste handling need to be submitted. Separate colour codes be used to represent the area proposed for year wise. Incidental mica production be submitted and separate register be maintained.
- d) As the mining is proposed for manual method, bench height be maintained at 1.5m only.
- e) The year wise production and development sections be prepared as per the corrected geological sections. Accordingly the year wise production and development table be corrected. Year wise Top soil to be generated should not be added to waste. Proposal for storing of top soil and its utilization be submitted separately.
- f) The drilling spacing and burden be submitted.
- g) Extent of mechanization needs to be described in context of proposed maximum production targets. The machine, manpower requirement should be supported by necessary calculations.
- h) In the conceptual chapter the Production & Development (excavation), recovery of ROM and mineral, Generation of SG / Mineral reject, Disposal of waste, backfilling of voids, reclamation and rehabilitation has not been discussed for the balance existing life after plan period 2018-19 to 2022-23. Thus the conceptual chapter should be discussed again in text and shown in plan for exploration, waste generation, pit development, ultimate economic depth of workings, land use pattern, sub grade / mineral reject generation, dumping of waste, stacking of SG and mineral rejects, afforestation, reclamation and rehabilitation be discussed correctly. In the text for the conceptual plan, all background calculation in respect of generation and disposal of waste for the whole life of the mine be submitted.

5) Mine Drainage

- a) The source of information pertaining to water table be furnished.
- b) Details of water to be accumulated in the mining pit during rainy season be accessed as per the rain fall data of the area and accordingly year wise sump proposal be submitted along with co-ordinates, bench no, dimension, capacity has not been furnished. In case sump is not proposed the capacity of pump to be used to vacate water from pit be discussed.
- c) Proposal be submitted for controlling runoff water entering into working pit during rainy season.

6) Stacking of Mineral reject/sub-grade material and disposal of waste

- a) The year wise incidental generation of mica and its stacking be discussed by giving details like area required for dumping, with height and co-ordinates. Separate stock register be maintained for mica and the monthly incidental generation be reported to the State DMG.
- b) The proposed waste dumping location is falling on the screening plant site. Thus under stacking of waste, quantity of waste to be generated vis-à-vis waste disposal scheme be proposed only within the mining lease boundary giving area required for dumping of waste, its height, co-ordinates, manner of disposal, year wise build up along with protective measures be discussed. The waste dump stacking area requirement calculation be submitted. This discussed plan should be supported with appropriate plan and enough number of sections.

- c) All the existing dumps details be furnished for location co-ordinates, height, area, existing volume with future plan for rehabilitation be discussed.

7) Processing of ROM and Mineral Reject

A screening unit already exists within the mine. The size and grade of feed material and output (finished marketable product), recovery etc be furnished. The 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 be submitted.

8) Others

The out put per man head is considered as 3 tonnes per day is on higher side.

9) Progressive Mine Closure Plan

In the base line information the land use pattern be submitted.

- a) Proposal be submitted for conducting Environmental monitoring giving details like location name, co-ordinates, frequency of sampling.
- b) The net area put to use and additional requirement of area for mining and allied activities is on lower side as the screening plant, ROM stock yard near screening plant and also ROM stacked at South , NW and West part of the mining lease, no of trial pits and bunds along the boundary line have not been demarcated in the financial assurance plan. In the financial assurance plan item wise area utilised be furnished in a table.
- c) In the environmental plan roads, old excavations, Gunta (small water reservoir) have not been shown.
- d) Backfilling of the 7.5 m safety zone mined out near boundary pillar 5 and in between boundary pillar 2 and 3 be proposed.

10) Plans and Sections

- a) All the plans should be prepared based on lease sketch approved by the competent authority of the State Govt of Andhra Pradesh.
- b) All the plans and sections should be submitted as per the provision of rules 31, 32, 33 & 34 of MCDR, 2017.
- c) The qualified person should furnish certificate duly signed by them stating that “Certified that this plans and sections area prepared based on the lease map authenticated by state government”.
- d) Standard code should be used for depicting various activities.

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