

SCRUTNY COMMENTS IN RESPECT OF REVIEW OF MINING PLAN FOR MICA, QUARTZ,FELDSPAR,VERMICULITE MINE OF SRI RUDRAPATI NARENDRA KUMAR OVER AN EXTENT OF 13.927 HA IN POKKANDLA VILLAGE, SYDAPURAM MANDAL, NELLORE DISTRICT IN ANDHRA PRADESH.

General

- 1) The document should be submitted as per the format of IBM Manual on appraisal of Mining Plan-2014.
- 2) As per rule 13(2) of MCR, 2016 progressive mine closure plan is a part of Mining Plan. Therefore, it is not required to be mentioned on cover page. Mine Code, Regn. No, lease period also to be mentioned on cover page. Lease period and its validity needs to be submitted correctly as per section 8A(3) of MMDR Amendment Act, 2015.
- 3) In Introduction, the details of the lease starting from the first grant , renewal status needs to be elaborated.
- 4) Letter in respect of approval of mining plan to be submitted instead of the first page. It is stated that the scheme of Mining was approved and approval letters are enclosed as Annexure-IV. However, the same is not enclosed.
- 5) Registration No. as per rule 45 of MCDR needs to be submitted.

Review

- 6) In the Review of Exploration, the year 2017-18 and 2018-19 were missing. In the review of development, the proposal versus achievement needs to be submitted for mineral vermiculite.

Geology

- 7) Recovery study to be carried out for recovery of Vermiculite in the vermiculite Mineralised zone by any Govt agency or NABL accredited laboratory and report thereof should be submitted.
- 8) Basis for considering the Bulk density needs to be submitted.
- 9) Since the existing quarry and trial pits dug in 2019-20 form the basis of exploration, the detailed meter-wise litho logs of the quarry and trial pits should be furnished.
- 10) All the existing and proposed exploratory inputs needs to be demarcated in the geological plan and in geological sections and needs to be indexed .
- 11) In table No.6, details of the existing trial pits, heading is mentioned as Quarry, Quarry size instead of trial pit no. and dimension. The depth of the trial pit is given as 3 m whereas in Form – J, for the trial pit No.1,3,4 the depth is given as 6m and for the trial pit No. 5 & 6, it is given as 1m. For trial pit No.2, the run details were not given. Please reconcile the data and give the correct information.
- 12) In page No. 15, it is mentioned that the chemical analysis report is enclosed as Annexure XI instead of Annexure XII, needs to be changed. Under para (g), it is stated that ten cross sections have been prepared instead of 8 cross sections, which needs to be changed.
- 13) In page No.16, the information given in para (j) in respect of exploration is incorrect which needs to be modified. The category of the deposit should be designated based on MEMC Rules, 2015 for Pegmatite containing (Mica,Quartz,Feldspar) and for Vermiculite separately.
- 14) In table No.9, the cut of grade is wrongly mentioned.
- 15) In page No.17, in Geological Axis G2, under petrographic data, it is mentioned that the recovery of 10% vermiculite is considered, which is incorrect as the vermiculite is occurring as a separate band at the contact of pegmatite and Schist. Please give the correct information.
- 16) In the justification of Feasibility axis, there are so many spelling mistakes. Under para costing, it is stated that semi - mechanized mining is proposed. However, in Mining Chapter, it is proposed as Manual mining. Please clarify.
- 17) In page no.19, operating cost /ton furnished is incorrect and needs to be corrected. Under para (h) it is mentioned that minimum optimum production of 1666.6 tons has to be achieved to meet the requirement of the captive plant , needs justification.
- 18) In the justification of Economic axis, under Para (a) it is mentioned as 39796.25 mt of vermiculite reserves instead of Pegmatite, needs to be corrected. The information given in respect of

exploration is also in correct. The Specific end-use grades of reserves needs to be commented for Quartz, Feldspar, Mica and Vermiculite. Cut off grade is wrongly mentioned.

- 19) In page no.20, it is stated as proved mineral reserve (122) instead of Probable Mineral Reserve and Inferred Mineral Resources (222) instead of pre-feasibility Resources and make the changes accordingly wherever it is applicable.
- 20) In page no.22, total mineral resources furnished under G2 are incorrect and needs to be corrected.
- 21) Resources have to be assessed for mineral Vermiculite based on the recovery percentage to be attained in the recovery test.
- 22) In the parameters considered for Reserves/Resources estimation, the cut off grade to be submitted for chemical and physical properties based on which vermiculite is considered as marketable. Cut off grade of Quartz, Feldspar and Mica also needs to be submitted. UPL depth to be submitted and UPL boundary to be demarcated in the Plans and sections.
- 23) Details of Reserves/Resources as per UNFC codification needs to be submitted for Mica, Quartz, Feldspar, Vermiculite with grade.
- 24) In light of the above mentioned points, the Reserves/Resources needs to be re - assessed as per MEMC Rules-2015.
- 25) Exploration is to be proposed to explore the potentially mineralised area in G1 level. Further year wise area proposed to be explored in different level needs to be submitted.

Mining

- 26) It is stated that 3m bench height and 3m bench width will be developed, which is not acceptable. Bench dimensions should be designed as per MMR,1961.
- 27) It is mentioned that 15000 tons of Quartz, Felspar, Mica and Vermiculite will be achieved per annum. However, the proposed production of Quartz, Felspar, Mica is furnished as 20,000 tons in table no.16 against the approved quantity of EC for 15000 tons for Quartz, Felspar, Mica and Vermiculite. Proposed Vermiculite production needs to be furnished. The total proposed production needs to be restricted to the approved EC Quantity only.
- 28) It is stated that existing pit has reached a maximum depth i.e., 6 m below the ground level which is contradictory as the pit depth was given as 16 m in table No.13.
- 29) In table no.13, the details of the old pit has been furnished whereas the same has not been shown in the surface plan and other relevant plans. The different bench parameters are given in at different places, needs to be corrected.
- 30) In page no.25, it is stated that there are two number of dumps in ML area instead of two stock yards. In table No.15, unit of volume is to be mentioned.
- 31) Total tentative Excavation (m3) needs to be submitted correctly. The year wise table submitted towards insitu tentative excavation should be in consonance with the recovery study report. The source of generation of Intercalated waste needs to be submitted. The ROM: Waste ratio needs to be submitted considering all the above mentioned factors.
- 32) In page no. 29, under Exploration, it is stated that 24 core boreholes are proposed to be drilled instead of 14 CBH and 10 DTH, which needs to be corrected.
- 33) In page no. 32, it is stated that the proposed waste generation will be dumped in Northern proposed quarry. This can be dumped on the existing quarry and no need to propose another dump.
- 34) In page no. 33, it is stated that 10000 m3 pegmatite generated during the plan period will be dumped in the existing dump in SE side instead of existing stock yards, needs to be corrected.
- 35) In page no.34, it is mentioned that retaining wall and garland drain will be constructed during first and second year of the scheme period, which is incorrect as the plan period is only for one year i.e., 2021-22.
- 36) In table no.24, (Details of check dams, garland drains & Retaining walls), year to be mentioned.
- 37) In page no.35, under para (d) the buyer's specifications are given for Mica only. The same has to be furnished for Quartz, Felspar and Vermiculite also.

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

- 38) All the existing waste dumps with its no, location co-ordinates, dimension and tentative volume need to be submitted.
- 39) Waste dump management needs to be proposed for the existing waste dump also.
- 40) Calculation for area requirement to accommodate the proposed waste generation needs to be submitted.

Progressive Mine Closure

- 41) Environmental protection measures need to be proposed for existing and proposed new waste dumps and dully demarcated on the R & R plans and conceptual plan. Details of environment protection measures needs to be submitted in the text with dimension, co-ordinates .
- 42) All the Environmental protection measures, environmental monitoring locations needs to be depicted in the R & R Plan.
- 43) Date is not mentioned in the consent letter and the date on the certificate from RQP is to be updated.
- 44) Annexure Numbers are not given for some of the Annexures and the given numbers are also not matching with that of mentioned in the text. Needs to be corrected.
- 45) Form-J was not signed by a Geologist under whose supervision the exploration work was carried out.
- 46) Recovery and Bulk density test to be undertaken for Vermiculite and the report is to be submitted.
- 47) The heading of the feasibility study report is wrongly mentioned, which needs to be corrected.

Plans and Sections

- 48) In key Plan, wind direction and population of the villages falling under 5 km of the ML area to be furnished.
- 49) Date of survey needs to be mentioned in the surface plan and to be signed by the surveyor certified by the DGMS. The dump should be shown with the conventional symbol. Orientation of the lease area in the surface plan should match with that of the lease sketch authenticated by the state DMG.
- 50) In Geological Plan, Strike and Dip are to be marked. UPL has not been marked.
- 51) Section C-C' needs to be re - drawn as the Vermiculite Band has not been shown. UNFC codes are to be marked for the area considered for G2 scale of exploration.
- 52) All the old existing mining pits are to be demarcated in the surface plan and other relevant plans.
- 53) In year wise development plan & section, proposed waste dump is shown, which is not required as the proposed waste generation can be accommodated in the existing waste dump. Please make the changes accordingly.
- 54) In the environmental plan, the seasonal nala, environmental monitoring locations needs to be demarcated. Wind direction is to be shown .
- 55) All the plans and sections should be submitted as per the provision of rules 31, 32 & 34 of MCDR, 2017 and signed by the surveyor having Certificate of Competency of Survey from DGMS. The conventional symbols should be used for all the features shown in the plans and sections and the same is to be indexed.



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Room No.603, 6th Floor,
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Date : 7.6.2021.

To
Shri Rudrapati Narendra Kumar,
D.No. 12-13-143,
Old Police Line, Islampet
Abdul Khader Street,
Vijayawada,
Krishna District,
Andhra Pradesh.

Sub: Submission of Review of Mining Plan in respect of Quartz, Feldspar, Vermiculite and Mica Mine of Shri Rudrapati Narendra Kumar, over an extent of 13.927 ha. in Pokkandla Village, Sydapuram Mandal, SPSR Nellore District of Andhra Pradesh under Rule 17(2) of MCR 2016.

Ref: Your letter No. Nil dated 21.5.2021

Sir,

With reference to your letter cited above on the subject, the draft Review of Mining Plan has been examined by Smt. Ch.Suseela, AMG. Table scrutiny comments were prepared and have already been forwarded to you and your Qualified Person on respective e.mail ids i.e., mkpallam@gmail.com 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 (4Nos.) 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.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 P.R.Mishra, Qualified Person for information and necessary action.

(Shailendra Kumar)
Regional Controller of Mines

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