

**SCRUNITY COMMENTS ON ‘DRAFT REVIEW AND UPDATION OF MINING PLAN’ IN RESPECT OF KARIGALA KYANITE MINE, ML No. 2286 OF SRI MOHAMMED AKRAM, OVER AN AREA 12.14 HA, SITUATED IN KARIGALA VILLAGE, H D KOTE TALUK, MYSORE DISTRICT OF KARNATAKA STATE.**

All the headings, subheadings and para nos. should be replicated as per the standard guidelines as given in “*IBM Manual on Appraisal of Mining Plan 2014 in an orderly manner.*”

**COVER PAGE**

1. Review & updation of Mining plan including Progressive Mine Closure Plan with the rule No. may be given.
2. Under Category it is to be mentioned as “B” (Manual)/Opencast/ Private/Non Captive on the cover page.
3. Land status may be given separately.
4. Symbol “&” may be removed from the name of the mine. ML No may be given in Brackets

**Introduction:**

5. Specific orders/ guidelines or notifications received from the regulatory bodies time to time pertaining to this ML may be discussed in this chapter briefly.

**Location & Accessibility:**

6. Para 2(a): Name of the mine may be specified.
7. Para 2(b): (i) Mysore tulaka is given in this para whereas H D Kote is written in the cover page. Necessary correction may be done.(ii) The Lat. & Long. of the all corner boundary pillars are not matching with the last approved document. Clarification may be given.
8. Para 3 .1: Date & reference of the earlier approved MO/SOM may be given since the inception of the mine.

**PART-A:**

**Geology & Exploration**

9. Para 1(e): (i)15 trial pits were proposed in the last SOM, wheras 3 trenches is mentioned in this para. Necessary corrections may be done. (ii) The depth of the trenches is given as 10 mts .On field inspection the depth of the trenches were observed to be less than 2.5 mts. (iii) In para 1(e) (iii),core samples & are mentioned. Necessary corrections may be done at all relevant places.
10. Para 1(i): In details of future exploration given in table no.06, year may be given appropriately.
11. Para 1(k): Detailed section wise calculation of Reserve estimation based on the recovery factor, bulk density, influence area etc may be furnished in this para instead of Annexure with necessary corrections.

12. Para 1(l): (i) The section wise calculation of feasibility mineral resource (211) of 0.018 Million Tons may be given in para 1 (k). (ii) UNFC classification of reserves & resources as on 31.01.2020 may be given.

## **MINING:**

13. Para 2.0 (a): The existing location of mineral stack & waste dump may be discussed.

14. Para 2.0 (b): (i) The quantity of top soil generated may be put up in the In situ Excavation table.(ii) In table no.11, 60% of the material is considered as waste whereas in reserve estimation table, the same material is treated as mineral reject .Clarification may be given and necessary correction be done accordingly. (iii) Since no dump re-handling is proposed for the purpose of recovery of mineral, Nil or No proposal may be given.

15. Para 2.0 (c): (i) The table given in page no.29 is not aligned with the table no.11. (ii) Area may be given in Hectares.

16. Para 2.0 (e): (i) Individual year wise production & developmental proposals may be discussed in this para including stacking of mineral reject, top soil & location of dumping of OB in the proposed plan period.(ii) The bench height is proposed for 1 mts only whereas the reserves is calculated for 3 mts. Clarification & justification may be given. (iii) Concurrent back filling proposal may be reviewed based on the above comment & corrected iat all places in the document.(iv) In this para discussion on site for disposal of Overburden, ground preparation, dumping inside/outside the UPL and dumping ground proved for absence/presence of mineral may be discussed.

17. Para 2.0 (f): (i) Re-grassification of the entire mined out at the conceptual stage of mining may be proposed & few sections of the same may be given.(ii) The area required for mineral storage at the conceptual stage may be verified.(iii) Under extent of mechanization, it is to be clearly stated that the JCB & tippers will be used only for transportation of ore from mine site.

18. Para 4.0 (a): Qunatity of top soil generated may be tabulated in Table no.17.

19. Para 4.0 (b): (i) The para may be rewritten as per comments placed at pt no.16(iii) & (iv).

20. Para 4.0 (c): (i) The details of area, quantity, their location , height etc may be discussed in this para.(ii) Garland drain may also be proposed year wise in table no.18.

21. Para 6.0(g): Activity wise breakup of the requirement of water may be given to form a water balance chart which includes water requirement for dust suppression, watering the plants, water for drinking & other purposes.

22. Para 8.2: Mitigation measures for controlling air & water pollution may be described.

23. Para 8.3.5: Summary of the year wise proposal for reclamation & rehabilitation work may be reviewed.

24. Para 8.6: The additional area required during the plan period may be cross checked & verified. Necessary corrections may be done accordingly.

**25. PLATES:**

- a) Key Plan (Plate No.1A): (i) Approach roads to the lease area may be marked. (ii) The leases surrounding the said ML may be marked with name of the company.(iii) Topo sheet no. may be given.
- b) Surface Plan (Plate No.3): (i) All the surface features like mineral stock, afforestation & other details may be given shown & indexed.(ii) The plan is to be signed by the surveyor.
- c) Surface Geological Plan & Section (Plate No. 4): (i) G1, G2 & G3 area with their extent may be shown in the plan & section. The same may be tabulated. (ii) The exploratory trenches carried out in the past & year wise feature proposal of exploration may be marked with different colours & indexed.(iii) Few more section lines at regular interval of 50 mts may be shown. (iv) Separate plate of geological sections may be given.(v) The information furnished in the text part is not aligned with the geological sections.
- d) Development & Production Plan & section (Plate No. 5): (i) Separate plate of production & development plan & section may be given for each of the proposed year. (ii) The 1<sup>st</sup> year production & development plan should be aligned with updated surface plan & from 2<sup>nd</sup> year onwards with the previous year proposal showing the updated position of the previous year. (iii) The geology related information may be removed including trial pits.(iv) year wise production, mineral stacking, afforestation, top soil stacking & concurrent utilization and temporary OB dumping/backfilling may be shown & indexed. (v) Distinct benches with the top & bottom RL of each of the bench may be shown in the plan & section.(vi) The production & development plan & section may be given on 1:1000 scale, since the working is small.
- e) Conceptual Plan & section (Plate No.6): (i) Re-grassification of the entire back filled area at the conceptual stage of mining may also be proposed & shown in sections.(ii) Other unnecessary information's depicted on the plan may be removed.
- f) Environment Plan (Plate No. 7): The proposed location of air, water, noise & soil in the core zone & buffer zone may be marked, tabulated & indexed.
- g) Reclamation Plan (Plate No.8): (i) Year wise progress on plantations may be shown, tabulated & indexed. (ii) Year wise progress on the environmental engineering measures like retaining wall, garland drain may be shown, tabulated & indexed.
- h) Financial Assurance Plan (Plate No.9): Revised FA table may be given & shown in the plate as per the comment placed at point No.24

**26. Consent letter/Undertaking & Certificate from QP may be complete in all respect as per the format specified.**

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