

**Scrutiny Comments of draft 'Modification to Review and Updation of Mining Plan' in respect of Donimalai Iron Ore Mine of M/s Shree Gavisiddeshwara Minerals., ML No. 2552, covering 130.00 Ha of area in Donimalai Block, Sandur Taluk of Ballari District, Karnataka State.**

**COVER PAGE**

1. Submission of PMCP under Rule 23 of MCDR, 2017 may be given.
2. Name of the village in which the mine is located may be mentioned.
3. Date of Execution and date of expiry of mining lease area as per the lease deed may be given. Lease period mentioned up to 02.07.2057 may be supported by the letter from the State DMG, Karnataka.
4. Under Category, it may be given as A-FM/Opencast/Partnership Firm/Non captive/Private.
5. RMP period & Modification to RMP Plan period may be given clearly.

**INTRODUCTION**

6. The period of scheme of mining dated 24.01.2013 may be corrected.
7. Area for which the Mining Plan is submitted is to be mentioned clearly.
8. State wise leases already held by the lessee indicating the type of mineral, areas, location etc. may be furnished.

**INTRODUCTION**

9. Para 1.0(a):District, State & pin code of the nominated owner is not aligned with the address given.

**LOCATION AND ACCESSIBILITY:**

10. Para 2.0(a): (i) Topo sheet No may be given. (ii)The validity of mining Lease up to 02.07.2057 may be supported by the letter from the State DMG, Karnataka.(iii)
11. Para 2.0(b):All the details of the lease area may be furnished as per the format given in the IBM manual on appraisal of mining plan 2014.

**DETAILS OF APPROVED SCHEME OF MINING:**

12. Para 3.1: In remarks column, under 4<sup>th</sup> row, Mining Plan may be corrected as RMP.
13. Para 3.3: Reasons for deviation in respect of exploration & excavation may be given.
14. Para 3.6: Specific reasons for modification in the review & updation of mining plan may be enumerated.

**PART-A**

15. Para 1.0 (e) (ii): (i) Details of 4 DTH drilled may also be incorporated in Table no.10. The same may also be shown on the Geological plan & section. (ii): In table No.10, grid interval and year of drilling may also be indicated.
16. Para 1.0 (i): Future exploration proposals given in the document may be aligned as per Rule 12(3) of MCDR, 2017 which requires detailed exploration (G1 level) to be carried out over the entire potentially mineralised area under the mining lease, within a period of five years from the date of opening of the mine. The future exploration proposals may be reviewed accordingly.
17. Para 1.0 (j): (i) The area under G-1, G-2, G-3 and G-4 may be given in a tabular form based on the exploration carried out in the past. The same may be shown in the Geological plan and sections as well. (ii) Reserves/resources may be estimated by slice plan and cross sectional area methods separately and variance may be analysed and explained. (iii) Bulk density & recovery factor of each of the material handled in the mine given in this para may be supported by field test report from NABL accredited /Govt. authorised Laboratory.
18. Para 1.0 (k): Since no exploration has been carried out in the past plan period and the estimation of reserves/resources is purely based on the extent of exploration carried out, hence the reserves/resources may be kept unchanged (previously approved document). Depletion of reserve/resources in the plan period may be tabulated to arrive at the updated status.
19. Para 1.0 (l): (i) in table no .17, average grade of each of the material may be given. (ii) Table no.18 & 19 may be corrected as per the comments placed at Sl no.15 & updated reserve/resources may be given as on 01.04.20220.

#### **MINING-OPEN CAST WORKING:**

20. Para 2.0 (a): (i) Details of sub grade stock if any may also be given in this para.(ii) In table no.22, corrections may be done in the headings matching the informations furnished.
21. Para 2.0 (c): (i) Year wise, bench wise, section wise calculation of production & development quantities including reef & float may be given & aligned with the information furnished in table no.24. (ii) Year wise production & development including waste dump disposal with reference to section line may be described in brief.
22. Para 2.0 (d): The calculation pertaining to drilling & blasting, excavators & tippers may be based on the maximum material handling in the proposed plan period & be placed under the head extent of mechanization.
23. Para 2.0 (e): (i) It is to be ensured that the total mineral is exhausted before proposing backfilling. Reference of the bore holes may also be given. Permission is also to be obtained before the backfilling is started. (ii) In table no.27, no of benches may be corrected for the year 2021-2022 in pit no.1.
24. Para 2.0 (d): (i) Clarification may be given on the ultimate pit depth of the pit & corrected accordingly.(ii) Land use pattern at the conceptual stage of mining in respect of statutory building & mineral stock may be verified & corrected.
25. Para 2.0 (e): Re-grassification of the entire mined out area (Backfilled) at the conceptual stage of mining may be proposed & few sections of the same may be given.

26. Para 4.0(b): (i) In this Para, it is to clearly state that the dumping ground/backfilling area is proved for absence of mineral & be outside the UPL supported by bore hole data.(ii)In table no.31,slope nos may be corrected as slope angle.
27. Para 5.0(a): Size specification & grade specification may be given for different steel industries where the ore is supplied.
28. Para 6.0(b): The flow chart may be given specific to the mine.
29. Para 7.0(b): The information furnished in table no.37 & 38 is not matching under the head of employment potential.
30. Para 8.2(i): (i) Land use pattern till the end of plan period may be given in this para. (ii) Mitigative measures for blasting may also be given as 40% of the total volume proposed to be handled requires blasting.
31. Para 8.3.5: Year wise break up of 1.28 Ha of backfilled area may be given.
32. Para 8.3.6: Since retaining wall & garland drains are proposed to be constructed in the plan period, the area may be considered for FA calculation. Accordingly FA table may be crosschecked & corrected.

#### **PLATES:**

- a) Key Map (Plate No.1b): (i) Lease area may be prominently marked. (ii) Access to the mining lease area may be shown. (iii) Topo sheet no may be given.
- b) Surface Plan (Plate No.IIa): (i) The nomenclature of the pits & dumps may be kept same as given in the document. (ii) Part of the waste dump is shown outside the ML area & no mention of the same in the text part. (iii) This plan should be duly signed by the mine surveyor with certificate no.
- c) Geological Plan (Plate No.II b): (i) Area under G-1, G-2, G-3 & G-4 may be shown prominently with thick lines & indexed accordingly. (ii) UNFC codes may be depicted in bold letters. (iii) This plan should be duly signed by the mine surveyor with certificate no.
- d) Geological cross sections (Plate No.IIc): (i) All the features falling on the respective section line may be depicted. (ii) Geological sections may be drawn at regular interval across the strike all along the ML area.(iii) This plan should be duly signed by the mine surveyor with certificate no.
- e) Production & Development Plan (Plate No.IIIb & IIIc): (i) the 1<sup>st</sup> year modified production & development plan should be aligned with surface plan & from 2<sup>nd</sup> year onwards with the previous year proposal showing the updated position of the previous year. (ii) Geological index may be deleted from this plate. (iii) Yearly proposed mine working, dumping, backfilling, mineral stacking & plantation may be shown with location.The same may be indexed accordingly.(iv) Year wise movement of benches with the direction may be shown & indexed.
- f) Production & Development section (Plate No.IIIId): This plate is to be aligned as per the information submitted in the text part.
- g) Dump management Plan & Sections (Plate No.IIIe): (i) Year wise waste dumping & backfilling along with the protective measures may be shown in this plate with different colours prominently. (ii) The no of terraces shown in the plate is not as per the information

- submitted in the text. Necessary corrections may be done.(iii) RL's may be depicted on all the dump sections.(iv) Few sections of backfilling area may also be shown in this plate.
- h) Reclamation Plan (Plate No.IV): (i) Year wise built of the retaining wall and garland drain may be shown and indexed. (ii) Proposed year-wise afforestation may also be shown in different colours.(iii) Plantation on the mining pit may be reviewed.
  - i) Environment Plan (Plate No.V): (i) The Environmental Plan may be drawn on 1:2000 scale. (ii) All the environmental monitoring stations may be shown on the plan which has been indexed.
  - j) Conceptual Plan (Plate No.VI): (i) In this plate only the details pertaining to conceptual land use pattern may be shown with outlines and the activity proposed to be conceptualised may be shown. (ii)Re-grassification of the entire mined out area at the conceptual stage of mining may also be proposed & shown. (iii) Few conceptual sections may be drawn.
  - k) Financial area assurance plan (plate no.VII): (i) Only the outline may be marked for different land particulars and indexed. (ii) All the land particulars to be shown prominently in this plate.

1. **Annexure:** Following items are required to be annexed with the document:

- a) The format of the Consent letter/Undertaking /Certificate may not be changed and all the points to be covered. Spelling mistakes & quarry plan has been mentioned, which may be corrected.