

**SCRUNITY COMMENTS ON ‘DRAFT MODIFICATION IN THE APPROVED REVIEW AND UPDATION OF MINING PLAN’ IN RESPECT OF THIMMAPPANGUDI IRON ORE MINE (ML NO. 2605) OF M/S MYSORE MINERALS LIMITED, OVER AN AREA 136.94 HA. SITUATED IN KRISHNANAGAR VILLAGE, SANDUR TALUK, BALLARI DISTRICT OF KARNATAKA STATE.**

- a. 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.
- b. Repetitions may be avoided by giving reference to para no. & page nos.

**COVER PAGE**

1. The photographs on the cover page may be removed.
2. Original period of the approved Mining Plan and proposed modification period to be mentioned clearly in the cover page.
3. Extent as per MMDR act may be removed from all places of the text and Plates.
4. Grant of Mining Lease & expiry of the lease as per lease deed may be given. Expiry date of 25.12.2035 may be supported by the extension letter issued by DMG, Govt. of Karnataka.
5. Under Category it is to be mentioned as A (Fully Mechanised)/Opencast/ State Public Sector Undertaking/Forest/Non Captive on the cover page

**INTRODUCTION**

6. Specific orders/ guidelines or notifications received from the regulatory bodies time to time pertaining to this ML may be discussed in this chapter briefly.
7. State wise leases already held may be given as per the format given below:

Lease reference no. & date	Area	Postal address/Location	Type of Mineral	Working/Non working	Status of approval of mining plan	Date of execution and Date of expiry	Remarks

8. Para 1(a): In this para, the details like phone no., Fax, Mobile No and E-mail ID of the Managing Director/Nominated Owner may be given.
9. Para 2.0(c): In page no.6 sub para a) may be deleted.

**DETAILS OF APPROVED MINING PLAN/MINING SCHEME**

10. Para 3.3: (i) In review of exploration, excavation, reclamation etc. all review positions may be given up to up to 31.03.2019. Reason for deviations in respect of reclamation and

rehabilitation may be elaborated. (ii) The dump re handling (Table No.10) may be crosschecked.

11. Para 3.3: Details of the violations observed may be given with their compliance status.

12. Para 3.6: Point no.3 may be elaborated.

## **GEOLOGY & EXPLORATION**

13. Para 1.0 (d): E-Mail ID of the prospecting agency may be given.

14. Para 1.0 (j): Following points may be corrected

- i. The area under G-1, G-2, G-3, G-4, non mineralized 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. The exploration carried out in the past may be summarized in a tabular column giving the year of exploration, type ,grid interval, bore hole ID Nos., their location ,collar level, depth and inclination.
- iii. As per Rule 12(3) of MCDR, 2017, 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 same may be ensured and future exploration may be proposed.
- iv. Recovery percentage stated from the mine & dump re handling may be mentioned specifically & in clear manner. Table no.17 may be deleted.
- v. Detailed assessment by NABL accredited laboratory for the calculation of the bulk density may be given and enclosed as Annexure.

15. Para 1.0 (k): Detailed calculation of Reserve estimation based on the recovery factor, bulk density, influence area etc may be furnished in Table no.21. The table is incomplete.

16. Para 1.0 (l): (i) The depletion of reserves may be given with respect to last approved mining scheme. (ii) Table No.23 may be reworked and updated reserve position may be given as on 01.04.2019.

## **MINING**

17. Para 2.0(b)(I): Following points may be corrected

- i. The nomenclature used for OB dumping, backfilling and dump re-handling for the purpose of recovery of mineral may be reviewed and future proposal in this chapter may be dealt accordingly and the same to be depicted in all the plan & sections.
- ii. Para 2 on page no.24 may be reviewed.
- iii. The total tentative excavation is not matching. May be crosschecked.
- iv. The bulk density taken for ore & waste may be given in Table No.25.
- v. The bulk density (ore & waste) and the recovery factor taken for above calculation may be established on time series data or supported by NABL accredited laboratory test report.
- vi. A separate table may be given for the dump which is proposed to be re handled like opening Stock, recovery, waste generated & closing Stock in Tons, average quality on yearly basis. The same may be reflected in the annual returns as well.
- vii. Few sections of the dump re handling may be enclosed.

- viii. The summary of the Drilling, loading and transportation equipment may be given after giving the detailed calculation of the extent of mechanization.
- ix. Clarification & justification may be given for dumping the OB within the UPL.
- x. Few sections of the OB dump may be given.
- xi. Bore hole data may be enclosed for non existence of mineral in support of proposed backfilling.

18. Para 2.0(f): This Para may be rewritten in brief and summary of the conceptual mine planning up to the end of lease period based on available resources and reserves, method of mining, recovery, backfilling, R & R envisaged and disposal of waste may be given. Few sections of the same may be enclosed as plates.

19. Para 4.0(b): (i) In this Para, it is to clearly state that the dumping ground is proved for absence of mineral supported by bore hole data. (ii) In table no.41, there is no storage shown in the modified plan period but in Para 4 (b), it is mentioned that some quantity will be dumped in Dump no.D3. Clarification in this regard may be given.

20. Para 4.0(c):

Year wise dumping and backfilling details may be enclosed in the appended table separately.

Year	Dump No	OB Quantity proposed	Area in Ha	No. of Stages	Level in MSL, Top RL & Bottom RL	Location Coordinates	Slope Angle

21. Para 5.0(e): In this para, the details of the proposed crushing and screening unit with no of units proposed may be given.

22. 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.

23. Para 8.3: Following points may be corrected

- i. The demographic details may be tabulated under human settlement.
- ii. In table no.49, only the proposal may be given. This table must be aligned with Annexure no.13. The same may be verified and crosschecked.
- iii. Proposed specific mitigation measures may be described for reclamation & restoration of land, water quality, Air & noise quality including ground vibration.
- iv. A tabular column may be inserted for monitoring the environment parameters in the core & Buffer zone with their respective locations and no of samplings proposed in core & buffer zone.
- v. A table of year wise a forestation covering details like no. of saplings proposed, their location, survival rate, area covered, species proposed to be planted & cost may be given. The same may be shown in the respective plates and reference of the plate may be given.

24. Para 8.3: The area put on use at the start and additional area requirement may be verified and cross checked once gain.

## 25. PLATES:

- a) General: The colours used for different activities may be kept same in all the plates.
- b) Key Map (Plate No.1): Name of the mining companies surrounding the said ML may be indexed.
- c) Surface Plan (Plate No.3): All the features including OB dumps, backfilled area and dump re handled may be shown and indexed properly.
- d) Geological Plan (Plate No.4): (i) Area under G-1, G-2, G-3 & G-4 may be shown prominently with thick lines & indexed accordingly. (ii) The sample locations may be removed from this plate. (iii) MMRD Lease area may also be removed. (iv) The geological index may be changed by giving different colours to different materials.
- e) Geological cross sections (Plate No.4A): (i) The G1 shown in the sections may be aligned as the Minerals (Evidence of Mineral Contents) Rules, 2015. (ii) All the features falling on the respective section line like dumps, backfilled & other activities may also be depicted.
- f) Production & Development Plan (Plate No.5 & 5B): (i) The geology related information may be removed including Geological index and bore holes. (ii) As discussed during the field visit, the year wise production, backfilling, mineral stacking and dump re handling may be shown & indexed. The details may be furnished in a tabular column year wise.
- g) Reclamation Plan (Plate No.6): (i) Year wise built of the retaining wall and garland drain may be shown and indexed. (ii) The geology related information may be removed including Geological index and bore holes. (iii) Proposed year-wise afforestation may also be shown with different colours.
- h) Environment Plan (Plate No.07): (i) The Environmental Plan may be drawn on 1:2000 scale. (ii) The ultimate land use pattern shown in the index may be shown on the plan.
- i) Financial Assurance Plan (Plate No.9): Detailed break up of Land Use Pattern of pit, dump, Infrastructure, Green belt, road etc to be given in different colour coding.

## 25. 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. The place and date may be given and 9.0 may be removed from the heading.
- b) Certificate from QP may be corrected, as the document submitted is for modification in the approved review and updation of mining plan.
- c) FC clearance of ML no.2605 may be enclosed.
- d) Annexure no.12 is not required.
- e) The costing details given in the feasibility report may be crosschecked in annexure no.16.
- f) In annexure no.17, the headings in column no.7,8 & 10 may be rechecked. The reserves may be calculated only for the minerals above the threshold value.
- g) In annexure no.20 & 20A, RL wise (Top RL & bottom RL) calculation of proposed development & production for the remaining years may be furnished only for the minerals above the threshold value.

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