

SCRUNITY COMMENTS ON DRAFT MODIFICATION TO THE APPROVED SCHEME OF MINING OF IYLI GURUNATH IRON ORE MINE (ML NO. 2293) OF M/S RAMGAD MINERALS & MINING LIMITED, OVER AN EXTENT OF 20.35 HA.(AS PER CEC),AND 20.23 HA AS PER ML DEED, IN RAMGAD VILLAGE,SANDUR TALUK, BELLARY DISTRICT OF KARNATAKA STATE. THE SCHEME PERIOD IS FROM 2016-17 TO 2017-18, IN FOREST AREA, CATEGORY OF THE MINE IS A (FM- FULLY MECHANISED MINE).

1. The online registration number under rule 45 amended needs to be indicated on the cover page.
2. It should be written as modification to the approved scheme of mining. In the light of the above remarks, the text and the plates need to be attended, wherever applicable.
3. The mining lease validity period should be furnished as per the new amendments, 2015.
4. The status of the lessee should be written as private company. Besides, the forest land is given, whether it is reserve forest or other if any need to be specified.
5. Original Scheme period may be mentioned as from '2014-15 to 2018-19'.
6. Category of the mine should be written as: Opencast, A (FM-Fully Mechanized).

GENERAL

7. In para 1(b), the status of the lessee need to be mentioned as private company and not under public limited company.

DETAILS OF APPROVED MINING PLAN/ SCHEME OF MINING, IF ANY.

8. Para 3.1: The details of the approved mining plan & scheme of mining are furnished, without indicating the period of the validity in individual document for easy reference.
9. Para 3.3: Review of earlier approved proposals in exploration is to be furnished in a tabular form for 2014-15 and 2015-16 (proposals vs. actual). For excavation, actual production of 2015-16 should be given.
10. Progress of R & R implementation work as on date should be discussed in this chapter, through table format.

PART-A

11. Para 1.0: Geology & Exploration chapter is not found to be prepared as per the standard guidelines, paragraphs and subject lines from Para1.0 (a) to para 1.0(l) are not found to be included in this chapter.
12. Recovery of iron ore is considered as 100%, please explain, whether it is for complete blocks. A recovery analysis report may be annexed as supporting evidence.
13. Page 12: Minimum 10% of the total collected samples are required to be analyzed from NABL/ other Govt. laboratory as per the existing procedure, but samples from two boreholes, i.e. IBH-RC12 and IBH-RC13 only have been analyzed from NABL accredited laboratory. Please clarify.
14. Page 15: It may be clarified in this document whether on-going production is depleted from the Reserve or not? If not, subsequent production after drilling operation should be deducted from the proved Reserve (UNFC Cat. 111).
15. Page 18 to 22: Irrelevant description not pertaining to subject matter should be removed (Refer standard guidelines). Mining method, recovery factor, mining losses, processing loss etc. should be furnished very briefly here.
16. Page 24: Along Longitudinal section (L-L'), with an influence of 50m is found to be considered for blocked ore estimation (UNFC Cat. 211) for 'friable ore' which is not correct.
17. Justification of UNFC Cat. 111 & 211 should be furnished in Geology & Exploration chapter.
18. Para 2.0 A. (b): the information furnished on insitu tentative excavation, without table number, for the year 2016-17 to 2018-19 are found to be in cu.m, which should be given tonnes and the

- production limitation given CEC should be strictly followed. The information furnished in 5th column & 6th column should be indicated with percentage of recovery from the total excavations.
19. In para 2(f), the updated reserves & resources indicated under anticipated life of the mine, as 11.424 MMT & 1.349MMT respectively, what is the additional reserves/ resources added from what depth to what depth and also lateral extension may be explained.
 20. In para 2(f), the under conceptual mine planning, the conceptual exploration dealt is not appropriate, which needs to be attended, based on the latest exploration, instead of mentioning the period, 2016-17 to 2017-18, 2014-15 to 2017-18 has been mentioned. During the field visit, it was emphasized that the additional holes need to be undertaken at the 'A' block end, through incline holes, since the area reveals better iron ore fines and BHJ/BHQ at places. Further, the back filling proposals in 'A' block should be undertaken, only after undertaking incline exploratory bore holes to ascertain the area at depth and intimation to this office, on the outcome of the exploration. The para need to be attended accordingly.
 21. In page, 30, under reclamation & rehabilitation, it is given proposals as per R & R plan will be implemented without indicating tentative time schedule of completion, which ought to have been.
 22. In page,31, the land use pattern is given for the conceptual period, indicating 2.85 ha of area will undergo back filling in block-A, in 1st five years which need to be checked. Please refer table & para 8.6 in this respect & reconcile.
 23. In page-32, under dump-AD1, it is given, cost summary & time schedule table for implementation of R & R plan has been incorporated in introduction chapter, but the same is not incorporated.
 24. In para 7, on others, the details of the executives need to be given with details.

PART-B

1. Para 9: All certificates & undertakings are to be furnished separately in Part B as per new 2014 guidelines.
2. **Para 10, PLATES:** In all plates, purpose & period should be mentioned.
 - a) Key Plan (Plate no. III): the approach road to the ML area need to be indicated with approximate distance. The extent of the area both as per ML deed & as per CEC also need to be given and in all the plates.
 - b) Surface dump(Plate No.VI): The block A & B in the ML area, various pits, dumps, stacks of C-ore, fines, infrastructure etc., needs to be indicated with clarity in color code with difference from each for easy reference, the one shown is not clear for understanding.
 - c) Geological Plan (Plate no. V): The existing bore holes should be marked in red color code on the plan & in the index. Since entire mineralized area is explored by G1 stage of exploration, G2 demarcation should be removed from the plan. UPL is not drawn on the plan.
 - d) Geological Sections (Plate no. VA): Some of the sections reveal, that no exploratory bore holes were drilled to assess the mineralized/ non-mineralized at depths and the lateral extension, but assumed for non-mineralized and continued dumping in that area, which is not appropriate. All lithology should be marked up to the end of the boreholes. The ultimate pit slope should be shown in geological sections.
 - e) Conceptual Plan & section(Plate no. 8 & 9): The conceptual section submitted reveals, as if the whole area is going to be completely back filled and planted, whereas the plan does not look like. Therefore, the plan and section should be prepared in such a way to present, what will be the position of workings at that time of closure/ conceptual stage, and how it is going to be undertaken, whether the mined out area is going to be partly or fully back filled or converted to water reservoir etc., should be dealt both in plan and sections appropriately. In the present submission, reveals majority area is going to bring back the original topography. The reserve

part it is given 100% recovery of the deposits, if it is so, how the waste will be available to bring back the original topography especially on southern side may be checked and reconciled.

3. **Para 11, ANNEXURE:**Following items are required to be annexed with the document:
- a) Copy of recovery analysis report of iron ore.
 - b) Copy of the analysis report of RC/ Core boreholes (minimum 10% of the total collected samples), analyzed by NABL/ other Govt. laboratory.
 - c) Few photographs of the mining pit, existing dumps, stacks, infrastructure and boundary pillars.

NOTE

25. All the tables in the document are required to be numbered and 'list of tables' should be displayed in the contents.