

Scrutiny Comments on draft 'Final Mine Closure Plan' in respect of Raja Krishna Deva Raya Iron Ore Mine, ML No.2584 of M/s Auro Minerals covering 31.00 Ha of area in Kallahalli Village, Hosapete Taluk , Ballari District of Karnataka State.

- All the information's may be furnished in tabular form as per the format prescribed in the IBM manual for appraisal of Final Mine Closure Plan (July 2018)
- All the Certificates/ Consents/Undertakings and Annexures to be enclosed at the end of the text part.

Cover page:

1. Address of the Mining Lease holder may be furnished.
2. Qualification of the qualified person may be mentioned.

Consent letter:

3. Consent letter may be given in the format as prescribed in the IBM manual for appraisal of Final Mine Closure Plan (July 2018) with all necessary corrections. The name, designation & name of the company of the Authorized signatory may be furnished.

Part-A & B: Introduction & General Information

4. In this chapter brief introduction of the mine since grant of ML covering the legal obligations, special conditions, prohibitory order, legal issues pending, PIL/ Court Case etc. if any may also be mentioned.
5. Para1.1.4: Name & details like full address, designation, Contact no. & Email ID's of all the partners/Directors may be furnished.
6. Para1.1.7: Qualification & experience of the qualified person who prepared FMCP may be furnished.

Part-C: Location & accessibility of Mine

7. Para 1.2.2: Mine code as assigned by IBM may be given.
8. Para 1.2.6: Postal address & other details may be given as per the format.

Part-D: Details of last approved Mining Plan

9. Para1.3: Approval letter no. & date of RMP may be given along with the date of the lease period.
10. Para1.4.1: Type of borehole proposed & carried out may be furnished.
11. Para 1.4.5: Quantity of overburden proposed & actual done with respect to excavation & backfilling may be corrected.
12. Para 1.4.9: Total quantity of fines generated, utilized and stacked may be furnished as per the approved document.
13. Para 1.4.15: Location of fines stock proposed & actual location of stacking may be given.
14. Para 1.4.17: Length of the retaining wall & garland drain as proposed in the modified RMP may be furnished in this para.
15. Para 1.4.18: Fencing of the lease area has been proposed in the modified RMP. The same may be corrected accordingly.

16. Para 1.4.26 & 1.4.27: Few major average quality parameters of air & water as per the monitoring reports may be furnished.
17. Para 1.4.29: Show cause notice issued by this office may also be incorporated in this para.
18. Para 1.4.32: Details of revocation order if any may also be mentioned & relevant information's if any may be furnished.

Chapter-II: Geology & Exploration

19. Para 2.2.1 & 2.2.2: (i) Only the total no of trenches & bore holes may be furnished along with the area covered corresponding to the year of exploration. Other details like collar level, bore hole diameter & inclination may be deleted.
20. Para 2.2.5: The information furnished in table 8 may be corrected.
21. Para 2.4: Brief details regarding preservation of cores, etc. obtained while exploration within the lease area should be given as prescribed under Rule 63 of MCDR,2017.

Chapter-III: Mining

22. Para 3.1& 3.2: Only the tables as per the IBM manual for appraisal of Final Mine Closure Plan (July 2018) may be given. Unnecessary information's may be deleted from this para.
23. Para 3.3: Bulk density of the ore may be given.

Chapter-IV: Stacking of top soil, Mineral Reject, Fines, Tailings/Slimes & their disposal

24. Para 4.1: (i) Details of existing dumps & mineral stacks may be furnished in the prescribed format only. (ii) The total area mentioned in this para with regard to OB dumps & mineral stocks is not matching with the information furnished in para 1.4.28.The same may be corrected.
25. Para 4.4: Details of fines management during the closure period In the prescribed format may be furnished.

Chapter V- Final Mine Closure Plan

26. Para 5.1.1: (i) In this para, the existing land use pattern as per the approved RMP be furnished & yearly progress of reclamation plan with regard to afforestation & land restoration/reclamation may be discussed in brief. (ii) Land use pattern at the conceptual period with regard to mineral storage & crushing/screening and infrastructure may be verified & corrected accordingly.
27. Para 5.1.2: In this para, fencing of the excavated area, securing OB dumps & mineral stocks may be proposed & discussed point wise. Securing entry & exit to the mine & mine pits may also be clearly spelt out.
28. Para 5.1.3: (i) Existing afforestation details with area ,their locations, no of saplings planted along with survival rate may be furnished.(ii) Proposal for re-grassification, plantation in backfilled area, dump plantation & plantation on ultimate benches with area & no of saplings may be given.
29. Para 5.1.7:This para may be rewritten. Steps already taken and steps proposed to stabilize the OB dumps including retaining wall, garland drain, coir matting & dump plantations for each of the dump may be discussed with their locations.
30. Para 5.1.10:Surface features such as natural drainage system (streams, nalahs, water reservoirs, irrigation dams and canals), roadways & railways, places of historical and

archaeological importance, monuments, places of worship, forests with tree density, sanctuaries, wastelands, agricultural lands, grazing lands, predominant wind direction etc may be discussed in brief in this para.

31. Para 5.1.11: All the details (dimensions & area occupied) of the infrastructure present with in the ML area may be furnished along with the timelines to dismantle, dispose or decommission the same.
32. Para 5.1.15: Time scheduling for each of the activity may be given with dates.
33. Para 5.2: The details furnished in this para may be aligned with the information given in the approved RMP and in the prescribed format.
34. Para 5.3: Headings may be corrected as per the prescribed format.
35. Para 5.4: Financial assurance details like issuing bank, date of issue, validity, BG no. to be provided in a tabular form.

36. PLATES:

- a) Surface Plan (Plate No.3): (i) All the features like OB dumps, workings, backfilling & mineral stacks may be shown prominently & indexed accordingly. (ii) This plan may duly be signed by the surveyor.
- b) Geological Plan (Plate No.4): (i) UPL may be shown. (ii) All the exploratory bore holes (DTH & Core) along with trenches may be shown prominently and indexed accordingly.(iii) Area under G-1, G-2, G-3 & G-4 with UNFC code may be shown tabulated & indexed accordingly.(iv) Few more section line covering the dump area may be drawn.
- c) Geological Cross Sections (Plate No.5):All the features like existing workings, dumps & backfilled areas may be shown on the respective section lines.
- d) Production & Development Plan (Plate No. 6): Proposed working area may be marked prominently.
- e) Conceptual plan & sections (Plate No.8): (i) In this plate all the details pertaining to the closure activity of the mines as proposed & carried out in the past including re-grassification, plantation, fencing of pits, dump plantation etc. may be shown & indexed. (ii) Few more sections may also be enclosed as a separate plate. (iii) Mineral storage area shown may be corrected.
- f) Reclamation Plan (Plate No.10): All the engineering measures proposed within & outside the lease area may be shown prominently with different colours.
- g) Few sections of dumps may be enclosed in a separate plate.

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

- a) Copy of approval letter for the last approved RMP & Modified RMP.
- b) Few photographs showing Land use of the lease area, environmental status of the area/Ground Control Points/Lease Boundary Pillars.
- c) List of members of Board of Directors.
- d) Copies of violation letters issued by Indian Bureau of Mines or statutory obligations issued by any other authority during last approved mining plan period.
- e) Copy of Financial Assurance.
- f) Geological report may be submitted.

-----XXXXXX-----