

Mining Plan Scrutiny comments in respect of Dharmendra Bauxite Mine, Lease area 10.12 Ha, in village-Ambaliara, Teshil-Bayad, District-Aravalli submitted under rule 17(2) of MCR 2016 and rule 23 of MCDR 2017

1. All the standard certificates/Undertaking signed by the owner/qualified person with date & original signatures as required in the IBM Guidelines/Standard formats have not been enclosed.
2. All the annexure/encloser should be properly marked with page numbers and in Index description of annexure with page number should be given. The copy of annexure enclosed is not readable, fresh legible copies should be enclosed.
3. Category of Mines and correct mine code should be given on cover page.
4. The CCOM's circular No.2/2010 regarding boundary pillars DGPS survey, superimposition of map etc, need to be attended
5. CCOM's circular 2/2010 addendum dated 21-9-2011 may also be attended.
6. A boundary pillar of ML area should be connected with three permanent ground control points and permanent ground points should also be shown in surface plan.
7. Under General Para 1, the annexure number of address proof should be mentioned at place where address is given.
8. Under 2.0(b),Location and Accessibility: A proper location map should be enclosed and plate number should be given under this Par and the existence of road name, distance etc should be mentioned
9. Under 3.3: under the review, the year wise actual work done in respect of exploration, excavation and reclamation etc during last five years should be properly described as per the guidelines.
10. Under Para 3.4 & 3.5: The violation details pointed by IBM should be given and the suspension order issued by IBM should also be mentioned.
11. The Para 3.6 should be attended properly and details (if any) should be provided as required in the guidelines.
12. There are number of spelling mistakes and sentences at many places do not convey the meaning. The same needs to be attended carefully.
13. Para 1.0 (e)(i): Details of prospecting/exploration : it is mentioned that that working pit number 7,8,9 and trench 1,2 have been made and mentioned that same are shown on Geological plan. But, it is observed that no such pit number /trenches have been shown in the Geological plan. The demarcation should be properly done on the plans.

14. Para 1.0 (e)(iii): The analysis report of the all the trench/pits with reference to geological plan should be enclosed and the location of the sample should be mentioned. The analysis report should be from laboratory of the standard as mentioned in the guidelines. The single generalized sample analysis is not acceptable
15. Para 1(h): The future exploration programme should be proposed in order to explore all the reserves in the lease area in *terms of Rule 12(4) of the MCDR 2017*.
16. Under Para(j): The threshold value of bauxite mentioned is incorrect. The threshold value notified by IBM should be considered and mentioned under the para. Further it is mentioned that Feasibility is enclosed, but no feasibility report is enclosed. The category of reserves mentioned under 111 is incorrect. *Basis of assuming 3m depth in reserve calculation is not correct.*
17. The reserves should be properly estimated as per the UNFC Classification and a proper justification should be given for assigning the UNFC code to the reserves under different categories and supporting parameters. The basis of the writing the quantity of already excavated reserves should be mentioned, if it the total bauxite mined out from the lease period i.e 1975.
18. *There are no mineable reserves in UNFC, Reserve (111) i.e proved reserve is minable reserves.* The mineable reserves shown under the para is 28989, then how can the mining proposal be made of 190712, which is incorrect. Thus this mining plan is prepared in very casual manner without making any efforts to give the correct information and calculation. The mining plan document should be thoroughly read and corrected by the person, who has prepared this plan. Entire reserve should be reestimated.
19. In chapter 2.0, under Para A(a) :Existing method of mining with details on existing size & shape of pits, geometry of benches, layout of faces, current mRL of working etc. have not been furnished properly. Similarly, proposed method of mining with detailed supporting parameters may be given under the Para.
20. The mining should be proposed keeping the statutory barrier from the nearby river and electricity lines.
21. *Overburden excavation of 1550 ton in mentioned from page 15 to 17, but no overburden is shown in Geological section. Moreover it is mentioned on page no.24 , that there is no waste generation. Information furnished about OB/Waste generation is confusing and contradictory.*

22. Under Para (b) of table, in the year wise excavation plan the pit number should also be given and the pit should also be marked properly in the development plan, so that from which pit how much quantity will be excavated can be planned.
23. The bulk density considered may be supported with test report.
24. Individual yearwise development and section should be prepared on the separate plates.
25. The heading and subheading should be given in bold font, so as to see them promptly in the document.
26. Under Para 7, The statutory manpower as required under the rules for category A mines may be given.
27. In item no. 8.2 Impact assessment on all items as prescribed in the guidelines should be properly discussed and latest analysis report may be enclosed of above parameters like Air, Water, and Noise etc.
28. Financial assurance need be submitted as per rule 27 of MCDR'2017 for area put in use for mining and allied activities and proposed to be put in use during the next five years depending up on the category of mines.
29. All the changes suggested above may also be incorporated in the feasibility report. The feasibility should discuss clearly in terms of cost as how the mining operation will be economically viable.
30. The lease plan/Khasra Plan of the area, authenticated by the State Government should be enclosed showing the adjoining villages, road etc.
31. On all the plans and section a certificate stating "This plan and section are prepared based on the lease map authenticated by the State Government and are correct to the best of our knowledge" and should be signed by the QP.
32. The legible copy of lease deed and other enclosed documents attested by the QP should be enclosed.
33. All the plans and section submitted should have proper index.
34. *Restoration of mined out area has not been prepared. About 0.24 ha area have been considered as fully reclaimed. But it can not be considered. Financial assurance for entire degraded land should be submitted*

PLATES

35. Key Plan:

- i. This key plan should be prepared as per provisions made under rule 31(5) (a) of MCDR'88 and all the features should be distinctly marked on the plan.

36. Surface/ Geological Plan:

- i. The surface plan should be updated based on latest survey, showing all the existing features properly.
- ii. Index is defective & incomplete, specific colors /symbols as per MMR'61 need to be used for different features so that features indicated over the plan may decipher from one another ,
- iii. The area has not been connected with three fixed reference points by DGPS.
- iv. Co-ordinates (Latitude-Longitude) of each corners of the lease area have not been measured by DGPS/GPS.
- v. Approach road to benches should be marked.
- vi. Category wise reserves have not been marked on the plan and sections.
- vii. *Geological Section: it is confusing, lithounits have not been shown.*

37. : Development Plan:

- i. Development Plan based on latest survey should be prepared.
- ii. Index is incomplete and defective.
- iii. Proposed haulage road has not been indicated with gradient & litho units.
- iv. Pit positions at the end of each year have not been marked properly.
- v. Approach to propose faces, direction of advancement, slope of faces have not been shown clearly.
- vi. The section should be properly shown with index.

38. Environment plan:

- i. Land use, contour value 60m beyond the proposed ML area has not been properly prepared and all the surface features including human settlement may be shown.
- ii. It has not been prepared as per rule 31(5)(b) of MCDR'1988.
- iii. The points suggested for modification for key plan & Surface Plan may be taken care for preparing this plate.
- iv. ML/PL falling within 500m has not been given.

- 39.** Reclamation plan, Conceptual plan and Financial assurance plan should be prepared as per the guidelines.