

Scrutiny comments on the Review of Mining Plan for Palkur Limestone Mine over an extent of 149.392 Ha in Palkur Village, Bethamcherla Mandal, Kurnool District of Sree Jayajothi Cement Private Ltd after inspection dated 08.10.2020

Cover Page

1. The document heading needs to be submitted as Review of Mining Plan. The Lease period and expiry date needs to be mentioned. Rule position under which the document has been submitted needs to be mentioned correctly. In the cover page the Review of Mining Plan period should be submitted.
2. The document should be submitted as per the universal format of IBM manual on appraisal of Mining Plan-2014.
3. The .kml or .shp file wrt the proposals and land use need to be submitted in through email prior to final submission.

Introduction

4. Explanation/Elaboration of the process for getting the Mining Lease is not required to be submitted and related annexures need not be submitted.
5. The mine wise requirement for clinker plant should not be submitted in range. Further in the details of Mining Leases already held by the Lessee the status of submission of documents for approval needs to be submitted correctly.

General

6. As per rule 15(1) of MCR-2016 the mining plan document should be prepared by one qualified person.
7. Coloured photograph needs to be submitted.

Location and Accessibility

8. At Chapter 2, the block wise area needs to be submitted. Further the latitude and longitude of all corner boundary point/pillar needs to be submitted in the text.
9. Non lease area boundary needs to be demarcated in the field.

Details of approved Mining Plan /Scheme of Mining

10. Date and reference of earlier approved Mining Plan should be submitted in tabular form containing information regarding Approval Letter No and Date, Plan & Proposal Period, Rule under which the document has been approved and highest production proposed/capacity.
11. In the review reason for deviation in proposed production needs to be submitted. Review of dump rehandling needs to be submitted.

Geology and Exploration

12. Detailed statement showing BH Nos, type of BH, collar level and its depth needs to be submitted in text instead of Annexure-29.
13. Form-I in respect of sinking of Bore holes needs to be annexed.
14. Under Chapter 1(e) of Part-A (Geology and Exploration Chapter), a) Summarized bore hole lithologs consisting litho units wise average grade needs to be signed by the Geologist and submitted. Average grade of the entire deposit based on available exploratory data to be

- submitted b) At least for 10% of total samples should be analyzed by NABL Laboratory and reports thereof should be annexed.
15. Under chapter 1.0 (f) of Part-A, a) The locational co-ordinates along with level of the bench mark needs to be submitted. Co-ordinates along with levels of the place from where the bench mark has been transferred needs to be submitted. b) The Safety zone needs to be demarcated for Kunta and nala connecting to the Kunta and public roads passing through the lease.
 16. Under chapter 1.0 (g) of Part-A the area explored under different level of exploration needs to be demarcated in the Geological Plan.
 17. Under chapter 1.0 (h) of Part-A the UNFC code needs to be mentioned in the Geological Cross Section. Geological sections need to be prepared from one side of the ML boundary to other side of the ML boundary.
 18. Under chapter 1.0 (i) of Part-A, Exploration proposal needs to be submitted to explore the entire potential mineralised area under the mining lease in G1 level as per rule 12(4) of MCDR-2017.
 19. Under chapter 1.0 (j) of Part-A, a) Reserves and Resources need to be estimated as per UNFC with respect to the threshold value notified by IBM. b) The Feasibility report should be prepared as per the UNFC Guideline parameters for Stratiform, Strata bound and Tabular Deposits of Regular Habit (Category-I). The UNFC axis wise justification needs to be submitted as a part of Geology in the Feasibility report.
 20. Under Chapter 1(k) of Part-A, the detailed calculation of Reserves/Resources with average grade needs to be furnished in text.
 21. Under chapter 1.0 (l) of Part-A, a) Reserves/Resources as per UNFC needs to be submitted as per the IBM Manual on Appraisal of Mining Plan for Limestone Mineral only. Lithology and grade wise Reserves /Resources table may be submitted as Annexure. b) The reason for not considering the all the exploratory drilled bore holes for reserves/resources estimation needs to be submitted.
 22. In the parameters of Reserves/Resource estimation the Cut off grade needs to be submitted for CaO% and SiO₂ %, over all pit slopes needs to be submitted as per statute. Recovery needs to be submitted. MRL of last bench of UPL need to be submitted in the text.

Mining

23. The existing method for excavation with all design parameters needs to be submitted. The bench angle and pit slope needs to be submitted correctly and proposed as per statute. Further briefly describe the layout of mine workings, pit road layout, the layout of faces and sites for disposal of overburden/waste along with ground preparation prior to disposal of waste, reject etc.
24. Blast hole parameters needs to be mentioned in the text.
25. The insitu tentative excavation table be submitted for the five year plan period only and the production proposal from 23.09.20 to 31.03.21 needs to be removed from the insitu tentative excavation table.
26. Before starting mining operation in Pit-2 during the period from 2021-22 to 2025-26, safety barriers all along the non leased area needs to be maintained. Road Connectivity to be maintained to the non leased area within the Mining Lease.
27. Rehandling Proposal to be submitted.

28. Year wise blending schedule from 2021-22 to 2025-26 to be provided in the text.
29. Extent of Mechanization needs to be submitted in the text before the sub head Conceptual Mining in the Mining Chapter.
30. In Conceptual Mine Planning Chapter, a) Afforestation proposal all along the 7.5 m safety zone, fencing and approach road to non leased area, Recovery of ROM, disposal of waste, backfilling of voids, reclamation and rehabilitation, Dump rehandling needs to be furnished in text.
b) In the Conceptual Mine Planning details of already approved plan period 2016-17 to 2020-21 needs to be removed.
c) Drastic reduction of mining/production capacity from 0.40 MTPA to 0.097 MTPA from Financial Year 2036-37 onwards for next 26 years needs to be justified.
d) The five year block wise additional area required excavations, disposal of waste/top soil, reclamation and rehabilitation for each five year block period upto the end of lease period needs to be submitted in text.

Mine Drainage

31. Minimum and maximum depth of working needs to be submitted for the proposed five year plan period from 2021-22 to 2025-26 instead of first five year plan period.
32. Year wise Sump Proposal needs to be submitted.

Stacking of Mineral Reject /Sub Grade material and disposal of waste

33. The entire existing old dumps/stock pile needs to be identified with number and mentioned in the plan. Each Dump wise dimension needs to be submitted with location co-ordinates.
34. Proposal needs to be submitted to carry out a study by engaging NCBM on the quantity and quality available in dumps and recovery and suitability for utilization in cement plant.

Progressive Mine Closure Plan

35. Environmental monitoring needs to be proposed.
36. Proposed year wise Plantation details needs to be submitted along with location in tabular form.
37. The area already put to use and proposed to be used should be submitted as per the Table indicating the break-up of areas in the Mining Lease for calculation of Financial Assurance in the IBM MANUAL ON APPRAISAL OF MINING PLAN except Net area considered for calculation.

Plans and Sections

38. Copy of Original lease sketch issued during the time of initial execution needs to be submitted.
39. Hatching of Mining Leases of M/s Sree Jayajothi Cements Private Limited in the Key plan should be avoided. Instead it should be demarcated by thick boundary line in red colour.
40. Date of Survey heading along with the date needs to be mentioned in surface plan and Surface Geological Plan.
41. Geological sections may be prepared on same scale of Geological plan at suitable interval across the lease area from boundary to boundary.
42. All the roads developed for exploration needs to be demarcated in the surface plan.
43. Contour lines and places of historical importance should be demarcated in the Environmental Plans of all the three blocks.
44. Production and Development section should be prepared separately for each year for all the section lines which are intersecting the year wise proposed production.

45. Few Conceptual longitudinal and transverse sections needs to be prepared for all the blocks and submitted separately.
46. All the plans and sections should be prepared and submitted as per the provision of rules 31, 32, 33 & 34 of MCDR, 2017 and signed by the surveyor having Certificate of Competency of Survey from DGMS.

Annexures

47. Summarized Bore hole lithologs needs to be submitted.
48. Irrelevant annexures need to be removed.
