

Scrutiny comments on Review of Mining Plan of Kotapadu Limestone mine of M/s Prism Cement Limited over an area of 663.46 hectares in Kalvatala & Kotapadu villages, Kolimigundla Mandal, Kurnool district of Andhra Pradesh State.

General

1. Mining operations was not carried since execution of lease. Hence status of lease from State Government with reference to section 4A(4) of MM(D&R)Act 1957 is required to be submitted.
2. A letter of acceptance of State Government for change in the name of the company from 'M/s Prism Cement Limited' to 'M/s Prism Johnson Limited' should be submitted.
3. Justification for not operating mining lease/ delay in the project should be submitted with supporting documents.
4. It is observed that, Environment clearance for integrated cement plant & lease has been lapsed on 26.03.2019. Status of Environment clearance shall be submitted.
5. Introduction chapter be included by furnishing the events in brief since filing of PL/ML application to till date with the relevant enclosures.
6. Co-ordinates of the lease area to be connected to national grid and bench mark be established and its co-ordinates to be furnished.
7. Copy of G.O's for Lease grant, proceedings for lease execution since inception should be submitted with documentary evidence.
8. The lease area be connected to national grid and bench mark be established and its co-ordinates to be furnished.
9. Status of implementation of CCOM Circular no. 2/2010 to be submitted.
10. As per the Section 8A(3) of the Amended MMDR Act 1957 in 2015, all mining leases granted before the commencement of the Mines and Minerals(Development and Regulation) Amendment Act,2015 shall be deemed to have been granted for a period of 50 years. After amendment of the said Act, no Modification of Mining Plan has been approved towards change in the lease period. Hence the heading of the document is to be submitted as 'Modifiatiion of Mining Plan" instead of Review of Mining Plan including Progressive Mine Closure Plan". Reason for modification needs to be submitted accordingly.
11. The document shall be submitted as per the chapters mentioned in the IBM manual on appraisal of Mining Plan 2014.
12. Color photographs should be enclosed in the document for easy reference pertaining to boundary pillars, quarry, afforestation, core logs, ground control points etc.
13. The boundary pillar coordinates certified by the state government shall only be annexed.

Review of Mining plan

14. Yearwise proposed exploration, development, production and afforestation and its achievement shall be submitted.

15. Compliance of status of violation pointed out by IBM should be clarified clearly whether complied or not.

Geology and Exploration

16. Detailed description of the geological succession and disposition of all litho-units shall be submitted.
17. Levels of exploration (G1&G2) carried out and its area shall be discussed in the exploration chapter and to be clearly shown over Surface Geological Plan.
18. Area explored under different level of exploration may be marked on the geological plan and UNFC code for area considered for different categories of reserve/resources estimation may also be marked on geological cross sections.
19. Sample analysis report of the borehole drilled in the mining lease area be submitted.
20. Phase wise exploration carried out in the lease area should be furnished in tabular form. As well as the details of bore holes drilled incorporating, collar details, survey file for drill hole, assay details, geology details, rock quality details, for easy reference.
21. Cost incurred for exploration carried out so far should be furnished with supporting documents.
22. Lessee should carry out detailed exploration (G1 level) over the entire potentially mineralized area under the mining lease within a period of 5 years from the date of commencement of MCDR 2017. Exploration proposal and commitment to complete the exploration shall be submitted accordingly.
23. The summary of the blocked up resources as per UNFC code shall be submitted.
24. The geological sections are not mentioned correctly in reserves and resources calculation. Accordingly reserves and resources need to be assessed as per MEMC rules and backup calculation thereof be submitted. Total geological resource need to be re-assessed.
25. The classification of Reserves and Resources with average grade of Cao, MgO & SiO₂ shall be submitted.
26. The categorization of reserves and resource need to be assessed correctly as per MEMC Rules and new threshold value of limestone published by IBM. Details of mineralized non mineralized area should be furnished. Reserves should be estimated by slice plan method.
27. Resources below cut off grade and above threshold value should also be estimated and furnished.
28. Following parameters should be considered for reserve estimation
 - (i) Ultimate Pit Limit.
 - (ii) Cut-off grade and revised threshold value
 - (iii) Safety zone for Nala/ Canal/ Village Road
29. Feasibility report for the mine should be submitted as per the format prescribed for the purpose showing the capital investment and proving economic viability of the project.

Mining

30. Proposed method of mining and design parameters along with pit layout shall be submitted.
31. Yearwise development and production plan showing pit layouts, dumps, stacks of waste shall be submitted.
32. Production proposals shall be submitted for the prospective plan period only i.e., 2021-22 & 2022-23.

Conceptual plan

33. Conceptual plan be prepared to indicate the UPL, life of the mine, conceptual exploration, pit dimension, land use pattern, status of reclamation and re-habilitation, land use, position of pit, dumps, dump re-handling proposals, green belt development etc. at the end of lease period. The details may be furnished in tabular form where ever required for easy reference.

Stacking of Mineral Reject/Sub-grade material and waste disposal

34. Top soil, OB/waste and mineral rejects generated during the plan period and till the end of the mine life shall be submitted.
35. Utilisation of topsoil during the plan period and till the mine life shall be submitted.
36. Topsoil and OB/waste dump proposal with co-ordinates shall be submitted.
37. Manner of disposal of waste and protective measures of the dumps shall be submitted.

Progressive Mine Closure Plan:

38. Environment baseline information should be furnished.
39. Monitoring stations in Core / buffer zone should be furnished and proposal for carrying out environmental monitoring shall be submitted
40. Year wise protective measures for reclamation and rehabilitation works for the plan period be submitted as per the table mentioned in IBM manual of appraisal 2014.
41. Proposed year and location of the garland drain to be mentioned in text and marked on the relevant plan.
42. Revised plantation proposal shall be submitted.
43. Financial assurance plan should be submitted on the basis of updated surface plan and area put to use for mining, allied activities and in view of above comments.

Plans and Sections:

44. The plans and sections shall be are prepared based on the basis lease map authenticated by the State Govt..
45. Surface plan is not updated and last survey carried out was not mentioned. Hence old slab quarry dump material in the lease was not assessed properly. Updated plans and sections should be submitted.

46. In the geological section the UNFC code of the area to be mentioned.
47. All the features in the plans and sections shall be mentioned correctly in the index.
48. As per Rule 34 of MCDR, every plan, section or part thereof under these rules shall carry thereon a certificate for its correctness and shall be signed by the Mining engineer with date. Provided that the geological plans and sections shall be certified and signed by the geologist employed under rule 55.
49. Conceptual plan shall be re-submitted showing conceptual size of the pit, afforestation, land use pattern at the end of this 5 year period and at the end of lease period.
50. Proposals shall be submitted in .kml or.shp files in the form of soft copies.