

Inspection report cum scrutiny comments in respect of Chintalayapalli Limestone Mine of M/s Ramco Cement Limited over an extent of 491.55 ha in Chintalayapalli & Itikyala Villages, Kolimigundla mandal in Kurnool district of Andhra Pradesh

1. 165 Million tones of reserves were estimated in the present submission and balance lease period left under section 8A of MMDR Act is 30 years i.e. 2050. Commissioning of 4.0 MTPA mine is not in consonance with the mineral conservation point of view, because at the end of lease period mine will be left with substantial quantity of Limestone. Thus commencement of mine for 4.0 MTPA shall be justified in light of the above.
2. Future proposal of Nayanapalli Limestone mine should not be dealt in this document.
3. The modification in approved mining plan was approved by IBM on 07.06.2018 with development proposal of roads, removal of top soil, production etc. during the years 2018-19 and 2019-20. But during inspection of mines no mining activities was observed, which needs to be justified.
4. NCBM report for conversion factor of Limestone to Clinker be got prepared and submitted.
5. The rated capacity of feeding mines as submitted in the document is incongruence with earlier approved document hence not acceptable.
6. Survey of India topo sheet no. furnished in the text and that of plan are different, should be corrected.
7. Details of last modification in mining plan should be furnished in para 3.2 indicating date of approval and reason for modification.

**Review :**

8. Earlier approved proposal should be specified as for the years 2018-19 & 2019-20, instead of stating 1<sup>st</sup> year and 2<sup>nd</sup> year.
9. Year wise development proposals are approved in the last approved document, but justification for not carrying out the activity as per the proposals should be submitted.
10. 125 bore holes were drilled in the lease area against 138 bore holes proposed in last approved proposals, but it is reported to have been drilled as 134 bore holes, needs to be corrected. Details of bore holes proposed as per earlier approved document (along with location, depth details) and actual achieved should be furnished. Total meterages proposed to be drilled was 4140 meters but actual is 2692 meters needs justification.
11. Justification for deviation in earlier approved proposals should be furnished.
12. The certificate of incorporation of the company since inception should be enclosed.

**Geology and Exploration**

13. Phase wise exploration carried out in the lease area should have been furnished in tabular form in para “Exploratory drilling” for reference incorporating no. of bore holes, year of drilling, total meterage, type of drilling (DTH/ Core), angular/ vertical, maximum and Minimum depth etc. Further, details of all bore holes drilled so far should be submitted in tabular form incorporating Bore hole no., location (Lat/ Long), collar RL, Depth at which ore encountered/ exhausted from surface, angular/ vertical, core recovery% etc.. All the Meter wise analysis of bore holes logs should be submitted duly signed by the concerned Geologist under whose supervision the exploration was carried out.
14. Details of surface sample collected should be furnished in text and indicating the same in Geological plan. Bore hole logs with analysis details should be certified by person appointed under rule 55 of MCDR 2017.
15. Cost of exploration to be furnished with documentary evidence.

16. Please comment about compliance of rule 12(4) of MCDR 2017 to carry out exploration up to contact zone in G1 level in the lease area.
17. Threshold value should be considered as per IBM notification only i.e. Cao & Mgo content for assessment of resources/ reserves.
18. Reserves should be estimated and updated properly considering earlier approved mining plan, additional reserves established based on recent exploration, lease period etc. for clarity. Further bench wise resources/reserves with weighted average grade of ore should be furnished in tabular form. Justification of UNFC codes for reserves/ resources assessed should be furnished.
19. Feasibility report should be prepared as per the format prescribed "part-V" of MEMC rules 2015.
20. Comment about bore holes drilled by GSI should be made as these bore holes were not depicted in Surface Geological plan.

### **Mining**

21. Old pits are observed in the lease area which needs to be depicted in the Plans and sections and text.
22. No mining activity has been started so far, the same should be recorded in Mining chapter.
23. Two pits were proposed in two different locations instead of one pit as per the earlier approved document, needs to be justified.
24. Details of proposed crushing plant should be furnished in the text and depicted in relevant Plans.
25. Year wise tentative excavation proposal should be furnished as per the prescribed format only.

### **Conceptual plan:**

26. The top soil utilization should only be given for plantation purposes. . Stacking proposal within 7.5m zone should be avoided.

### **Mine drainage:**

27. Proposal of study on Ground water table in the lease area should be submitted in the document.

### **Use of minerals**

28. Para 5.0(a) has not been discussed properly. The industry requirement viz-a-viz the specification of the feeding mines have not been discussed. It should be clarified as how the quality requirement will be met from the proposed production from various mines.

### **Progressive Mine Closure plan**

29. Review of measures proposed in approved PMCP should be furnished.
30. Details as per the prescribed format of IBM manual 2014, should be furnished.
31. Details of base line data prepared by the agency accredited by MOEF should be furnished. Details of monitoring station for air, water, Noise with location should be furnished.
32. Public buildings, places of worship and monuments existing within buffer zone of lease should be furnished.
33. Basis of details furnished regarding Human settlement should be furnished.
34. The bank guarantee should be submitted as per the land put to use.

### **Plans and sections**

35. It is stated that, "Lease sketch issued along with lease deed was different from the lease sketch authenticated by the State Govt. Both the sketches have been enclosed as Plate-II & Plate-IIA. The same is confirmed from letter of State ADMG enclosed as Annexure-13.

In this regard DGPS survey duly authenticated by State Government should be submitted to indicate the actual lease area excluding the khasara no. not granted in the lease area as per GOMs no. 138 dated 15.02.2000.

36. Surface right held by the lessee should be indicated in surface plan, as proposal for access road, stocks.
37. Surface plan submitted is not matching with actual field condition, there exist old pits, nala/ vagu, rasta, culvert, settling ponds, but the same are not depicted. Surface plan should be prepared and duly dated and signed by qualified surveyor (as per MMR 1961) also furnish name of the surveyor & his certificate no. Further True North should be indicated instead of Magnetic north. Grid lines submitted in the earlier approved document should also be furnished
38. Geological plan: Structural features should have been depicted distinctly. Standard colour codes should be used in plans and sections as per MMR 1961, completed bore holes should have been indicated in red colour.
39. Key plan should be submitted on Survey of India topo-sheet and the details as per the provision of rule 32(5) of MCDR, 2017 should be incorporated.
40. Geological section should be submitted on 1:1000 scale to indicate distinctly RLs, Lithology, bore hole details, UPL etc. Further, in addition to stating cement grade Limestone, low grade, high grade limestone, Geological terms should also be mentioned.
41. If due to aforesaid changes, the data in other chapter or plates changes, they may please be corrected accordingly and also ensure the consistency of the data submitted in various chapters of the document

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