

SCRUNITY COMMENTS ON ‘REVIEW OF MINING PLAN’ IN RESPECT OF CHITTAPUR LIMESTONE MINES (ML NO. 2588) OF M/S NUVOCO VISTAS CORPORATION LIMITED , OVER AN AREA OF 796.4 HA. (AS PER LEASE DEED), SITUATED NEAR RAVOOR, K-CHITTAPUR & K-NAGAON VILLAGE,CHITTAPUR TALUK, GULBARGA DISTRICT OF KARNATAKA STATE

COVER PAGE

1. Review and updation of Mining Plan is to be written instead of Review of Mining Plan in cover page, consent letter, certificate from QP at all places in the document and plates
2. Address of the lessee may be removed from the cover page.
3. Category of the mine to be mentioned as: Open-Cast, Fully Mechanized, Captive use.

INTRODUCTION

4. Status of other statutory clearances like EC and FC, specific orders / guidelines or notifications received from DMG, Govt. of Karnataka and other regulatory bodies time to time pertaining to this ML may be discussed in this chapter briefly with supporting documentary evidences.
5. Para 1.0 (a): E-mail ID of the applicant/lessee may be given.
6. Para 1.0 (f): Qualification & experience in years to be given in this column. Also experience certificate is to be attached.

LOCATION AND ACCESSIBILITY

7. Mining lease period may be corrected in accordance with M M (D&R) Amendment Act, 2015 for 50 years w.e.f date of first grant of the lease.
8. It is to be clarified in this para whether entire boundary pillars has been surveyed by the DGPS survey or not.

DETAILS OF APPROVED MINING PLAN

9. Para 3.1: Date of execution of the Mining lease is 18.11.2008, hence proposal period of the approved mining plan (approved dated 24.10.2000) should be corrected as from F.Y. 2008-09 to 2012-13. Scheme of Mining for the period from 2013-14 to 2017-18 is not submitted by the lessee. Reason for non submission of the document may be furnished here.
10. Para 3.3: All reviews in respect of excavation, reclamation etc., review positions may be given from F.Y. 2008-09 to 2012-13 and also for the period from 2013-14 to 2017-18 in two separate tables. Reason for non-working of the mine should be mentioned.

PART-A

11. Para 1.0 (e) (ii): Exploration carried out within the ML area by core boreholes to be furnished in this para in a tabular format mentioning: Year of drilling, BH Nos., Location and Depth of hole.
12. Para 1.0 (e) (iii): It is to be clarified here whether at least 10% of borehole samples have been analyzed from NABL or similar accredited laboratory or not. Copy of the NABL

accreditation of the laboratory with chemical analysis report to be enclosed with the document.

13. Para 1.0 (i): It is evident from the site inspection and from the geological plan that lease hold area has been explored at grid pattern of 300m x 300m or G2 stage of exploration for mineral limestone.

Entire potential mineralized area within the lease should be explored by detailed exploration (G1 stage) within a period of five years from the date of opening of the mine after execution in accordance with Rule 12(3) of MCDR, 2017. In view of that, future exploration proposals are required to be corrected.

14. Para 1.0 (j): Feasibility study report of the deposit is not enclosed with the document. In economic evaluation of the feasibility report, provisions of paying royalty against DMF and NMET fund should also to be considered.

Information as furnished in page 20 & 21 are to be removed from this para and included under para 1.0 (l) as per the guideline of preparation. Justifications of considering UNFC codes (Viz. 122,222 or 333) should also be furnished in this para.

15. Para 1.0 (k): Section wise, detailed estimation of reserve and resources are not furnished in the document. In is incorrectly mentioned throughout the entire document that the deposit has been explored under G1 state of exploration. In light of drilled borehole grid pattern, it is prominent that the deposit has been explored under G2 and G3 stages as of now.

Level wise reserve and resource estimation may be retained in this para as supplementary information.

While estimation of reserve and resources bulk density and recovery% of limestone should be mentioned clearly.

16. Para 1.0 (l): Information under this para is not furnished in the document (ref. IBM Manual on Appraisal of Mining Plan 2014).

17. Para 2.0(b): Insitu tentative excavation, the information may be given in the table appended for all the five years. The Bulk density may be mentioned for converting into Tonnage & Recovery % to be mentioned in the table itself.

Year	Pit No	Total tentative excavation (Cum/Tons)	Top Soil (Cum/Tons)	OB/SB/IB (Cum/Tons)	ROM (Cum/Tons)		Mineral reject	ROM/Waste Ratio
					Ore	Mineral reject		

18. Para 2.0(e): In this paragraph, the ground preparation done before disposal of waste may be given. Also the position of the OB dump, mineral stock yard and top soil stacking with respect to UPL may be described in detail.

19. Para 2.0(f):Future Exploration proposal may be mentioned as per the MEMCA Rules 2016.From the mineral conservation point of view, proposal of backfilling may be given with the expected land use pattern at the conceptual stage. The same to be shown on the conceptual plate supported by section.

20. Para 4.0(a): Year wise disposal of top soil, OB/waste and mineral reject may be given in the table appended.

Year	Top Soil(Cum/Tons)		Mineral reject (Cum/Tons)			Beneficiation
	Reuse/Spreading	Storage	Backfilling	Storage	Blending	

21. Para 4.0(b): (i) It is to be clearly mentioned in this para whether the ground selected for disposal of top soil,OB/waste and mineral stack is proved for absence of mineral and are these outside the UPL. (ii) Area may be included in the table of details of dump.
22. Para 4.0(c): Sequence of year wise build up of waste dump and environment protective measures viz. construction of retaining wall, garland drain, silt settling tank etc. to prevent escape materials from the 'waste dump' should be furnished in this para in a tabular format.
23. Para 5.0 (a): Location, accessibility and tentative capacity of the proposed captive cement plant may be briefly furnished here.
24. Para 5.0(e): In this para, details of the process adopted to suit the user requirement may be given.
25. Para 6.0(b): This para may be rewritten indicating the feed, recovery and its grade at each stage of processing.
26. Para 8.3.1: Backfilling may be proposed in the mined out land to restore the land for future use.
27. Para 8.3.5: Year wise details of plantation, no of saplings, area covered, survival rate and species proposed may be given in a tabular form. Accordingly year wise proposals may be given in the PMCP table.

PART-B

28. **Plates:**
 - a) Key Plan (Plate No. II): (i) The key plan to be submitted on 1:50000 scale. (ii) Approach roads to the lease area may be marked. (iii) Demographic details may be annexed in this plate. (iv) Topo sheet no may be given legibly
 - b) Surface Plan (Plate No. IV): (i) The surface plan is to be submitted on a scale of 1:2000 or else scale relaxation letter approved by IBM may be annexed. (ii) The surface plan is to be signed by the surveyor. (iii) Survey No.371 is to be depicted which is not a part of the lease area in all plans. Mention of the same in the text part is to be done. (iv) The table affixed with WGS 84 readings may be deleted.
 - c) Geological Plan (Plate no. V): Stages of exploration is not demarcated in the plan. Part of the north-eastern portion of the mining lease is found to be remained unexplored by boreholes.
 - d) Geological Sections (Plate no. VI): In geological sections, UNFC Cat. 111 may be corrected as 122 (since boreholes are in a grid pattern of 300m x 300m). Similarly, where borehole spacing are >400m interval, UNFC Cat. accordingly to be corrected as 333. Ore projection below the end of boreholes should be placed under UNFC Cat. 333.
29. **Annexure:** Avoid any type of stamping in the annexure, following items are required to be annexed/corrected with the document:
 - a) Detailed section-wise calculation of reserve and resources of the deposit as per UNFC.

- b) Copy of the chemical analysis reports of drilled boreholes from NABL/ similar accredited laboratory.
- c) Feasibility Study Report, in economic evaluation of feasibility report, provisions of paying royalty on dispatched material to the State Govt., paying royalty% against District Mineral Foundation (DMF) and National Mineral Exploration Trust (NEMT) should be considered.
- d) Copy of the beneficiation study report of low grade limestone, if any.
