

SCRUPITY COMMENTS ON MODIFICATION & REVIEW AND UPDATATION OF MINING PLAN TO THE APPROVED SCHEME OF MINING, IN RESPECT OF TARIKERE LIMESTONE MINE (ML NO. 2381) OF M/S RAMCO CEMENTS LIMITED, OVER AN AREA OF 84.98 HA. SITUATED NEAR TARIKERE & SIDDAGONDANAHALLI VILLAGES, HOSADURGA TALUK, CHITRADURGA DISTRICT OF KARNATAKA STATE. SUBMITTED FOR APPROVAL UNDER RULE 17(3) OF MCR, 2016. FOR THE PERIOD 2017-18 TO 2020 (I.E UP TO 10.08.2020) IN NON –FOREST AREA.

COVER PAGE

1. The previous document was approved for the period 2015-16 should be indicated along with the present document modification sought for in the earlier approved Scheme of Mining, period of the document may be corrected as from 2017-18 to 2019-2020 (i.e. up to 10.08.2020), instead of giving directly, the period 2017-18 to 2021-22.
2. Educational Qualifications of the Qualified Persons are required to be mentioned in the cover page.
3. The online registration number should be indicated.
4. The proof for the change of name from Madras Cements Limited to the Ramco Cements Limited may be enclosed from the state DMG for the authenticity.

INTRODUCTION

5. Specific orders/ guidelines or notifications received from the regulatory bodies time to time pertaining to this ML may be discussed in this chapter briefly. Reason for non-working for last 5 years should also be mentioned, even after the approval of the document.

GENERAL

6. Para 1(a), the name of the lessee should be attended in line with the remarks given in the above cover page.

DETAILS OF APPROVED SCHEME OF MINING

7. Para 3.6: Since present document is submitted under rule 17(3) of MCR, 2016; the reason for such modifications may be furnished here briefly.

PART-A

8. Para 1.0(e): Nos. of borehole drilled in the ML area so far should be furnished in this para in a tabular format mentioning: type of borehole, Borehole ID, location, Depth and angle.
9. Para 1.0 (i): Nil exploration proposals are not acceptable. 5 boreholes had been proposed during F.Y. 2015-16 which are not drilled by the lessee so far and such deviation attracts violation of rule 13(1) of MCDR, 1988. Hence, these boreholes should be proposed during F.Y. 2017-18, or 2018-19, particulars of proposed boreholes should be kept same w.r.t. last approved Scheme of Mining dated 22.06.2015.
10. Para 1.0 (j): In economic evaluation of feasibility report, proposed amount to be paid against Royalty, District Mineral Foundation (DMF) and National Mineral Exploration Trust (NEMT) are not considered. Tentative cost of production and sale price are not discussed.
11. Para 1.0 (k): Reserve estimation along longitudinal section L-L' is not logical. For accuracy of reserve calculation section lines should be drawn perpendicular of strike direction. An additional section line may be considered at the north of the mineralized area (north of the section line C-C') and accordingly reserve may be re- estimated.

Blocked limestone resources below UPL, i.e. UNFC code 211 as marked in the geological sections, should to be considered for resource calculation.

In view of above observations, reserve & resource estimation should be re-calculated.

12. Para 1.0(I): Proposed recovery factor, mining loss and change in reserve estimation parameters w.r.t. last approved document (if any) should be mentioned in this para. No discussion is made for blocked limestone below UPL.
13. Para 2A(a), In addition to the information furnished, it is expected to brief on the slope of faces, direction of advancement, approach road to the faces & specification of roads, etc., to be marked. (ii). Also, the existing dumps spread parameters, height, slope protective works etc., to be marked. (iii). The bench wise, mRL wise, opening reserves, exploitation and the closing balance should be furnished for the proposed periods.
14. Para 2(b), under table-9, the three years production details furnished, which may be indicated for five years periods, though the previous year proposals not undertaken. In table-11, column- 6 & 7, wherein, it is given ROM @ 80% of MR & mineral rejects at 20% of Mineral reserves, whether it is of mineral reserves or from the excavation, may be attended appropriately. In the light of the above remarks, the remaining tables and the paras of the text may be attended appropriately.
15. Para 2(II), under dump re-handling, it is expected to mention that, there is no waste dump to re-handle, instead of giving no proposals for re-handling.
16. Para 2©, the plates referred to show the development & production reveals the date of survey as 2.1.2015, which must be brought out to the latest survey date. In the light of the above remarks, the remaining plates may be attended accordingly.
17. Para 2(d) & 2(e), must be attended in line with the remarks given in para 2A(a).
18. Para 2.0(f): In Conceptual Mine Planning, 'anticipated life of the mine' and other relevant details as per the guidelines are not furnished. Besides, the conceptual exploration, development & production, afforestation etc., to be described.
19. Para 2(g), under drilling & blasting, the powder factor is given as 3 to 4 is very much less in limestone and in comparison to iron ore, where it is reported for 6-7kg/t of explosives. Hence, the calculation shown for consumption of explosives for annum need to be checked and reconciled/ recalculated.
20. Para 4.0(c): Sequence of year wise build up of waste dump and environment protective measures to escape materials form the dump should be furnished in a tabular format. Location of top soil stacking area may be demarcated separately in the Production and Development plan.
21. Para 7.0 (b): Employment potential should be proposed in accordance with the provisions of MCDR, 1988.
22. Para 8.1: In page 46, name, distance and population of the villages present in the buffer zone may be furnished in a tabular format.
23. Para 8.2: Mitigate measures to control air quality, water and noise pollution may be furnished here.
24. Para 8.6: 'Unused Area' of 80.49 Ha, may be placed under item-head 'Others' (Sl. No. 12). Valid Bank Guarantee against Financial Assurance should be enclosed with the document.

PART-B

25. Para 9: No certificate from RQP is found to be enclosed.
26. **Para 10, Plates:** Key plan, Surface plan, Geological Plan and Environment Plan should be prepared as per the provisions stipulated in Rule 28 of MCDR, 1988.
 - a) Key Plan (Plate no. 1): Villages name, contours and other features are not legible; wind rose diagram and nearby ML areas are required to be demarcated in this plan. The approach road to the ML area need to be marked.
 - b) Geological Plan (Plate no. 4): An additional section line may be inserted at north of the section C-C' for reserve re-estimation. Proposed boreholes should be shown in the plan.

- c) Geological Sections (Plate no. 5): Section-wise reserve / resources estimation should be carried out as per the demarcated UNFC codes. The width of the ore body/ strike line is found to be not appropriate. The present excavation benches need to be widened and exposed as much as possible on both the sides i.e. east to west for more clarity.
- d) Production & Development Plans (Plate nos. 6C to 6E, 2017-18 to 2019-20. i.e. up to 10.08.2020.): Approach road to mineral reject stacks and dumps to be demarcated. Proposed afforestation areas and dump protective measures should be drawn in the plans. The development & production plan and sections should be attended in line with the remarks given in the text para 2A (a) & (b) respectively. The development & production plan & sections of 2017-18 must be brought out as on 31.03.2018, and followed by 31.03.2019, 31.03.2020 & 10.08.2020 respectively.
- e) Conceptual Plan(plate no.8): The protective measures required to be given for the waste dumps are not given as per the plan submitted, in the form of retaining wall, garland drain etc.
- f) Environment Management Plan(Plate No.12): The protective measures required to be provided are not provided, nor indicated in the plan and in sections.

27. **Para 11, Annexure:** Avoid any type of stamping in the annexure, following items are required to be annexed with the document:

- a) Annexure-1D must be supported with the state DMG, Govt, of Karnataka.
- b) Latest photographs of the mine pit, dumps, afforestation, boundary pillars and infrastructure if any may be enclosed.
- c) Annexures 8A to 8D must be given with dates in the annexures part for easy reference.
- d) Annexure-14, the period is indicated as 2016-17 to 2019-20, which is not correct.
- e) Corrected section-wise calculation of reserve and resources of the deposit.
- f) Copy of the valid Bank Guarantee.
- g) Last season environmental monitoring report.