

Scrutiny comments on examination of Review of Mining Plan and PMCP in respect of K. Pitchampatti Limestone Mine over 4.56.0 ha. in K. pitchampatti village, Karur Taluk & district, Tamilnadu submitted by Sri E. Srinivasan, Prop. M/s. Sri Ambal Limestone Mines under rule 17(1) of MCR, 2016 and Rule 23 of MCDR, 2017.

Mine code 38TMN28034

General:

1. In compliance of Rule 11(4) of MCDR 2017, the document should have been submitted at least one hundred and eighty days before the expiry of five years period for which it was approved on the last occasion, i.e., 180 days before 31/03/2022. In view of this, fine shall be paid at applicable rate for relevant period as outlined in Schedule-III of MCD(Amendment)R, 2021, read with Rule 62(2), for violation of Rule 11(4) of MCDR, 2017.
2. It was observed during the inspection that the lessee has not maintained boundary pillars for the lease in compliance of Rule 12(1)(v) of MCR, 2016. A few photographs of the pillars shall be submitted after re-fixing the same and marking latitude and longitude on the boundary pillars. The latitude and longitude provided for the 15 boundary pillars may be rechecked and correct co ordinates may be provided.
3. The mining lease was granted to Sri E Srinivasan, Prop. Sri Ambal Limestone Mines whereas the details of the patta land it is provided were in the name of Ilango. The same may be clarified.
4. As per the special condition imposed while granting the mining lease a safety distance of 10 m. has to be provided from the cart track in SF No.387 located west of S F no. 386/3. Presently, the cart track was made tar road. The safety distance of 10 m. was not maintained between the road and the existing waste dumps. The extended part of the dump should be re-handled. Accordingly, proposal for the same may also be incorporated.

Cover Page:

5. It is stated on the cover page as well as in Para 1.1.1 that the lease period is extended for fifty years from the date of grant of mining lease. The date of expiry of lease is given as 18.10.2014 as per MMDR, 2015 but the lease deed last executed expired on 08.10.2017 and the present validity status of the lease has not been submitted. Supplementary G.O. & Supplementary lease deed to that effect shall be submitted with the final copy of the document as separate annexures.
6. As per the provisions of Rule 20 of MCR, 2016 (Amended upto 2nd November 2021), any lease that has not been worked for a period of two years. As per the details given in the document, the mine is not under operation since 11.01.2017 onwards. Hence, the validity/status of the mining lease should be submitted from the competent authority of the State Government.

General Information

7. Para 1.3.7: The Address of the Qualified Person provided here does not match with the Proof submitted as Annexure 6A.
8. Para 2.1.4.8: The type of the deposit shall be specified as per Part-III of the Schedule of MEMC Rules, 2015. Similarly, the dip of the ore body given as 90 degrees which is not correct. As explained during the inspection the dip of the ore body varies from 80 to 85 degrees. Accordingly, necessary corrections shall be made in the relevant text part and plates.
9. Para 2.2.2.13 & 2.2.2.4.1: Bulk density test report and recovery test shall be enclosed as separate annexures.
10. Para 2.1.4.4: Mode of occurrence and control of mineralization: 3 bands viz., Band-I, Band-II and Band-III are extending beyond the pit-1, pit-2 and pit-3 and exact dimensions may be provided.
11. Para 2.2.1.14 & 2.2.2.14: Under this column, G1(Ha) shown as 4.56 ha. which may be corrected as discussed.
12. Para 2.2.4.2, 2.2.4.11 & 2.2.4.12: The detailed reserves & resources calculated with section/block/ bench wise dimensions (lxbxh) shall be furnished within the format, if possible, by adding additional rows and columns as needed and all the dimensions shall also be shown on the geological plan and sections to enable verification of the same. The soft copy of the calculation shall also be furnished in excel format as annexure.
13. Para 2.2.4: The estimation of the resources and reserves done as per the position of the existing pits and already carried out exploration work. During the inspection, it was found that there are another two working pits exist apart from the three pits shown in the surface plan and geological plan. The resources and reserves estimation may be recalculated taking into consideration of the two pits which was not shown in the plans. Accordingly, all the tables may be recalculated and necessary corrections may be done in all the plans and sections.
14. Para 4.2.1: Area covered by pits was merged which may be given pit wise and in other places also.
15. Para 4.2.1.2.2: Stack details shown as 'nil'. During the inspection, it was observed that small quantities of limestone mineral were left at different places in the lease area. As discussed during the inspection, all such places may be shown in the surface plan.

16. Para 4.2.2.1: In the table, the year wise bench parameters given as single plate number 6 which may be corrected. Since it is a mechanized mine a separate year wise plans and sections should be given for production & development.
17. Para 4.3.2: The total handling figure given as 50491 tonnes and subsequent years may be corrected as discussed during the inspection which includes ROM and side burden.
18. Para 4.4.4: It was proposed to use jack hammer drilling to drill 145 m. per day. Keeping in view of the hardness of the strata proposals may be given to deploy DTH/Wagon drills for better yield and powder factor.
19. Para 4.4.5.1: Excavator & Loading equipment shown as 'nil' which may be furnished.
20. Para 5.2.1.1: Number of Toilets build inside the lease area is shown as 1 which may shown as 'nil'. It may be given under the number of toilets built outside the lease area.
21. Para 5.4.2: The expected number of persons to be identified from occupational health diseases may be corrected.
22. Para 6.1: Total area under this table 'Area under mining operation' is shown as 0 which may be corrected.
23. Para 6.2.2.2.2: Retaining wall may be proposed along the existing waste dumps to avoid seepage towards the existing road.
24. Para 7.1: The financial assurance performance surety table may be given separately for each year as per the format. The area going to be covered under various mining activities during the current plan period may be rechecked as per the scrutiny remarks given above.
25. Para 8.1: The actual date of stoppage of mining operations may be furnished in the table.
26. Chapter-9: Impact Assessment (for fresh grant): This column is applicable only for fresh grant of mining lease, hence, the details given may be removed.
27. Annexures: Annexure-13 – Feasibility report is not signed by the Qualified Person.

Plates:

28. Some of the plates not signed by the Qualified Person.
29. During the inspection, it was found that in pit no. 1, 2 and 3 part/full of the pit bottom filled with water of 3 to 5 m. depth, hence, the position of the water may be shown in all the plans and sections with proper color code.
- 30. In compliance of rule 34A(3) of MCDR (Amended) 2021, the processed output (digital elevation model (DEM) and Orthomosaic) images obtained from a drone survey of the lease area and upto 100 m. outside the lease boundary carried out within six months shall also be submitted to the Regional Controller of Mines & Controller General, Indian Bureau of Mines.**
31. The authenticated lease sketch by the competent authority of the State Government should be submitted.
32. Plate –II: Surface Plan: Further, all the surface features are not shown in this plan, for ex. there are 5 existing pits and 4 temporary stack yards whereas 3 pits and 2 stacks only shown. The positions of the boundary pillars are not marked.
33. Plate –III Geological Plan: The mid points were not taken uniformly. The 10 m. safety distance to the cart track towards south side is not correctly shown. The existing pits position was not shown correctly. Hence, the geological reserves and locked up reserves may be re-estimated afresh. Index of limestone and granite gneiss not shown. The hanging wall side some over hanging portions exist. To avoid endanger proposal may be given in the 1st year itself to make benches on the hanging wall side.
34. Plate –V: Separate year wise plans and sections may be given as per the requirement. Proposals may be given to reduce the high wall, foot wall and hanging wall side. The shifting of the dumps proposed from the existing position to the north east corner of the lease area the cost of handling etc may be given in the relevant text and plates. The separate color code may be given to avoid confusion.
35. In .kmz file all the features as pointed out above should be clearly marked.