

Report on Scrutiny of Mining Plan including Progressive Mine Closure Plan in respect of Nagaur3B1(b) Limestone block Deposit over an area of 247.8711 hectares near villages- Deh, Tehsil- Jayal, District- Nagaur of Rajasthan State applied by M/S Emami Cements Ltd., Submitted under rule 16(1) of MCR 2016 & 23 of MCDR 2017 for fresh grant of mining lease.

1. The submission of Progressive Mine Closure Plan is now under rule 23 of MCDR, 2017. Correction should be made on cover page, certificates & in relevant paras of the text.
2. The consent letter is signed by Sh. Vivek Chawla, as Nominated owner. But in the copy of the board resolution placed as annexure 11, the name of nominated owner is Shri S.S.Sharma. Please clarify.
3. Para 1(b), page 6: The name of board of directors given is not matching with the names given in annexure 8.
4. Para 2(b), page 7: Applied area fall in village Deh & Sarsani but on cover page& other places only the name of village Deh has been given.
5. Page 9: The coordinates of the boundary pillars given in text differs with coordinates given on plates. The Pillar A& A' has been given in text, but in plates no such pillars have been shown. Hence on demarcation report or any other the coordinate for all the pillar duly authenticated by State DMG Officials should be submitted along with on line scrutiny sheet for coordinate of pillars.
6. Page 27: The blocked reserves have been shown under 332 categories without any justification. In the same table the Measured Mineral Resources (331) & Indicated Mineral Resources (332) have been written Remaining Measured Mineral Resources & Remaining Indicated Mineral Resources. It should be corrected and blocked reserve should be put under cat.222.
7. Page 28: In the table, the recoverable reserve (130.46x40%) should be 52.184. Please check & correct.
8. Page 32: Under heading Dump re-handling it is written that no old dump exists in the area. On page 63 in table the area covered by old dump is given as 0.360 hect. During inspection old dumps have also been observed and it is also shown on plans. Please check & correct.
9. Page 35 & 36: During 3rd year area degraded land by pit is given as 4.18 hect. but in the table the area given is not matching. Similarly for 4th & 5th year also. Please check & correct.
10. Conceptual Mining Plan(page 42): Details of excavation, reclamation/rehabilitation, plantation etc. for consecutive five years blocks up to lease period have not been incorporated in conceptual mining plan.
11. Page 44: In table scheduled of plantation, plantation area at end of life of mine is given around temple, road& electric line. But on page 34 it is written that in future company will make effort for diversion. Please clarify.
12. In Chapter 7, the regular medical checkup & other benefits to the miners pertaining to their health should also be proposed in this chapter.
13. The land use pattern given on page 63,71 and in FA table are not matching. Please check & correct.
14. Financial Table: The area under excavation at beginning is shown as 0. But in other part of the text on page 57, and 63, Pit/quarries area is given as 2.784 hect. Please correct the FA table accordingly.
15. All the modifications as suggested above for Mining plan may also be taken care of in relevant Para's of Progressive Mine Closure Plan.
16. The amount for FA should be calculated as per Rule 27 of MCDR, 2017.
17. The prefeasibility is not as per format prescribed under Mineral Evidence Rule,2015. The capital cost, annual revenue and expenses should be properly discussed and basic cash flow should be prepared indicating NPV, IRR and payback period at proper discounted factor. The economic

evaluation in annexure-17 is very casual and convey no meaning. For a captive mine, the value of mineral needs to be derived from the sale value of end product.

18. Every table should be numbered for better reference.

Plates:

19. In all the plates submitted

- (i) Standard symbol for soil and other litho units should be given.
- (ii) Every plan should be signed by the person prepared it and then the certificate of correctness should be signed by qualified person.
- (iii) The word old pit & old dumps may be used for earlier excavation and old dumps.
- (iv) The area has not been connected with three fixed reference points by DGPS/GPS.

20. Key Plan:

- (i) The date of Magnetic meridian as per rule 31 (1)(b) of MCDR 2017 has not been marked. Date of survey should be given on plates.
- (ii) The land of different type falling under applied is not shown. Whole applied has been colored with one colour. Please mark the outline of the applied area and used different colour/symbols for showing different things falling under applied area.

21. Surface Plan:

- (i) The highest and lowest RLs of the area should be indicated.
- (ii) Same symbol has been used for showing agricultural land & soil.

22. Surface Geological Plan& Section:

- (i) All the discrepancies pointed out in reference of Surface plan except land use should be taken care of in this plan also.
- (ii) The colour used for ML boundary & UNFC code -122 is same.
- (iii) Block reserve around electric line not marked.
- (iv) The blocked reserved category should be corrected as per the correction made in text.
- (v) Instead of apparent dip, true dip & strike should be marked on plan.
- (vi) In AA' lithounits shown on surface is not matching with plan. Similarly in some sections road, electric line with buffer zone has not been shown properly. Please check the sections and correct.
- (vii) In section same colour index has been used for dolomite limestone & sludge lime stone. Standard symbol for soil should be used.

23. Development Plan:

- (i) All the surface & geological features of the area have not been marked.
- (ii) In sections please mark the safety barrier along road, eclectic line etc.
- (iii) Proposed dump site not shown in plate 3C. Similarly the symbol & color used for soil stack in plate 3C differs with the symbol & colour used in plate 3D & 3E.
- (iv) Same colour index has been used for dolomite limestone & sludge lime stone.

24. Environment Plan:

- (i) Govt. & private land should be marked with different colour.
- (ii) The points suggested for modification of Key plan & Surface plan should be taken care of while preparing this plate.
- (iii) Boundaries of all villages and towns with their population, tree density, proposed Plantation, wastelands, agricultural lands, grazing lands. Area occupied by mine workings, area covered by dump with the height of the dump etc should be shown.

25. Conceptual Plan: Details of excavation, reclamation/rehabilitation, plantation etc. for consecutive five years blocks up to lease period should be given in conceptual plan.

26. Financial Assurance Plan: Details of five year activities for broken area, reclaimed, rehabilitated, plantation etc. should be given. The FA table as given in text should also be given in the plan.
27. All boundary pillars has not been erected, their precise coordinates as authenticated by the state government and the photograph of each & every pillar showing their well-defined number should be submitted.
28. There are minor typographical mistakes/correction/omissions on the plates as well as in text should also be attended carefully.
29. The entire document and plans should be submitted in soft copies by e-mail in PDF format. An undertaking may also be given that the documents in hard copy & in soft copy are same.
30. Each and every page should be signed by the person preparing the mining plan.

Dated
Place Ajmer

(Dr. A.Z.Khan)
Senior Mining Geologist