
Report/Scrutiny Comments on examination of the Review of Mining Plan with Progressive Mine Closure Plan for Gagrana Limestone mine (ML no. 1/78)over an area 200.0 located near village – Gagrana & Ghantia, Tehsil – Merta City District –Nagaur submitted on behalf of M/s Manglam Cement Ltd. under rule17(2) of MCR 2016 and rule 23(B) of MCDR 1988(Amended in 2003). Date of inspection- 9/2/2017.

1. On the cover page, Mine code and IBM registration number may be mention. The category is mentioned as A-OTF, however earlier this mine is categories as A-Mechanized, without prior approval from authorised authority cannot change in category of mines.
2. Contents may be given before list of annexures and plates.
3. In the certificate from Applicant and Mining Engineer, The world Scheme of mining is written instead of review of mining plan in so many places, which need correction.
4. Every new Chapter may be started with new Page.
5. The coordinate given for pillars are not verified by the State DMG official. Hence on demarcation report or any other the coordinate for the entire pillar should be verified by State DMG Officials.
6. Copy of lease deed with agreement copy may be enclosed.
7. Copy of Financial assurance is not found enclosed.
8. The statement given in starting of introduction chapter is not clear. The ML Area in Hact should also be given in table of Details of ML held in State.
9. Chapter 1.(d)(General)- The rule under which the persons authorised to prepared the present Review of Mining plan.
10. Chapter 2.0(General) As stated at page no. 7 the details of boundary pillars duly verified from Mining Engineer, DMG is enclosed, the same has not been found enclosed.
11. Para 3.0(General-Review of earlier approved Scheme/Mining Plan)
 - i Year wise review for Exploration, excavation of mineral, OB, Top soil etc, subgrade proposal should be given in tabular forms with proposal, achievement and remark column. The comments in remark column in case of any deviation should also be given.

- ii Land use table & financial assurance proposal of last PMCP has not been reviewed along with financial assurance given. The proposed Top soil, Plantation, Degradation, and other proposal should be reviewed year wise.
- iii Para 3.4 the nature of rules pointed out and there compliance status should also be mention in all the violations and show-cause notices issued form IBM
- iv Para 3.6- Rule 22(4) of the MCR 1960 is mentioned. It may be corrected as MCR 1960 has no relevance at present.

12. Part –A Chapter 1.0 (Geology and Exploration)

- i. The chapter name and numbering should be given as per guidelines. Given.
 - ii. Para (c) In Local lithology table with thickness of strata/bed may be given
 - iii. The purpose for future exploration is not given. The exploration programme is to given in order to convert resources into reserves and confirmation of mineral in virgin area , hence a remark column in table showing the purpose of exploration is to be given. Already explored and area to be explore area in Hact. may also be given. Total Mineralized area is to be covered under exploration proposal in plan period. All resources may be explored for G-1 level within 2 years
 - iv. Para J) It is existing mine, hence reserves and resources as per previous approved mining plan should be given first, than depletion and balance reserves may be given. If additional or fresh estimation of reserves than proper justification why need of fresh estimation should be given.
- 13. The justification of parameter considers for the estimation of category wise reserve and resources under UNFC has to be explained in detailed like strike length, width and depth of ore body is considered for different category. The various UNFC codifications are also not given in geological sections and on surface geological plan. The various UNFC codifications may also be given in geological sections and on surface geological plan. The reserves and resources may reconcile. The date of reserves in UNFC table is not matching with other statement. Analysis report of different grades of mineral from NABL accredited Lab may be submitted.**

14. Chapter 2.0(Mining)
 - i The details regarding size of existing pit with number of benches and depth may be given.
 - ii The bench width is not mentioned. Width of bench will be kept as per machinery will be used for excavation.
 - iii Broad blasting parameters (Blasting pattern, charge per hole, charge per delay, maximum holes to be blasted per delay and manner and sequence of blasting) have not been given. Powder factor in ore and overburden have not been given. Details about storage of explosive have also not been furnished. For Storage of explosive- The license no. date with reference should also be mention under the para.
 - iv All mining proposal should be supported with Grid references
15. Under Conceptual Plan (i.e. in the Text) the details of Conceptual Status of the pits (five yearly as well as at the end of the life of the mine) be shown ore to OB ratio, extent of dumping and the adequacy of dumping space, reclamation and rehabilitation etc. The area to be explored also should be shown, showing extent of exploration.
16. Para 5.4.1- Machinery-The list of mining machinery deployed in the mine may be given with their specification and output/ performance of equipment.
17. The Year-wise quantities of top soil generation are not given. The shape and size of Waste dump; mineral reject are not given the dump location should be supported with Grid references. The number of present waste dump and their location with grid wise , area covered and how many dump stabilized and active is not clear.
18. Para 7.0 In the employment potential table a part time is mentioned, as per provision of MCDR 1988 in A category mine whole time Mining engineer and geologist is required. OMS is also not given.
19. Para 8.0 of PMCP The status of financial assurance submission is not mentioned. Hence the Financial assurance co-terminus with mining scheme

period in favour of Regional Controller of Mines, IBM, Ajmer should be submitted in Original with a copy annexed in the documents.

20. **Plate no 3-** Surface Plan. The type of land i.e. Govt. land and agricultural land is not shown, hence may be shown with different colour code. Many prominent features like school, human settlement well, ponds etc. present in the lease area is not marked.

21. **Surface Geological Plan and section : Plate No. ,4 :-**

The UNFC code is not shown properly, Assay value of all the bore holes for limestone is also not mentioned. Different zone of proved, probable reserve and other resources have not been marked on plan and section based on exploration so far carried out as per UNFC norm.

22. Conceptual Plan plate no 6. Outline for consecutive five years period upto lease period have not been incorporated in conceptual mining plan. The water reservoir not protected by fencing for safety purpose. The details of fencing may be described in text also.

23. **Cadastral Map(plate-9):- It should be authenticated by State officials.**

24. Each & every page of documents including annexure should be signed by the person who prepares these documents.

25. Some photographs representing the mine working, boundary pillar, stacks etc. should also be enclosed with the documents.

26. All the above maps/plate will be properly colour index & duly attested and authenticated with date of survey.
