

Scrutiny Comments on examination of the Review of Mining Plan with Progressive Mine Closure Plan for Sheopura Kesarpura Limestone mine (ML no. 24/97R) over an area 856.8 located near village – Jhak & Lulwa, Tehsil – Masuda, District – Ajmer of M/s Shree Cement Ltd. submitted under rule17(2) of MCR 2016 and rule 23 of MCDR 2017.

1. On the cover page, certificates and in text portion the lease area is stated to be near village Jhak and Lulwa in tehsil - Masuda, but in order from DMG, Rajasthan Govt. (annexure-7) and environment clearance letter from ministry of environment & Forest (Annexure-XIV), it is stated that lease is located near village Sheopura and Kesharpura in tah Beawar. It needs to be reconciled with supporting documents.
2. On cover page Period of scheme of mining is given may be corrected as period of review of mining plan.
3. All the Chapter numbers and paragraphs are not as per guidelines, may be given as per guideline
4. An Introduction / general Information chapter should be cover brief history of the mine, status of other ML/RP/PL held in the country.
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. Para 1.4 Review of the mining plan

Review of compliance position of salient feature of the mining plan has not been dealt properly;-

- (i) Para 3.3(a) Exploration- The 45 bore holes have been mentioned in actual work but year of bore hole is not mentioned. The details regarding total meterage and depth of each bore holes with outcome of these bore hole are also not mentioned.
- (ii) Para 3.3(b) Number of pits proposed and actual given as Nil may be checked.
- (iii) Para 3.3(c) Development- The number of pit with location and their size and number of benches proposed in approved plan and actual ground position at present with size of pit and number of benches is not given.
- (iv) Para 3.3(e)(f)(g) reasons for deviation is not mentioned. The totaling is also not correct.

- (v) 1.4(d)- the inspection carried out on 5.9.2017 and issue of violation letter dated 22-9-2017 and compliance report based on this inspection is not mentioned.
- (vi) Para 3.5 and 3.6 is missing.
- (vii) Review of Financial assurance table i.e proposed and actual should be given.

7. Geology and Exploration-

- (i) It should be chapter 1.0 of Part –A and not as chapter no. 4. The details of exploration carried out in term of meterage, outcome of these bore holes and expenditure incurred on its have not been specified.
- (ii) The brief of chemical analysis and physical propertied including bulk density/sp. Gravity considered for reserve calculation may also be given.
- (iii) The balance reserves after depletion may be given first than additional reserves if any based on exploration carried out during last plan period should be given.
- (iv) In table 4.7 the depletion upto Aug 17 taken as 5.67 Million tonnes whereas in review chapter it is shown as 6.16 Million tonnes.
- (v) The table 4.8 is not clear and the figure shown in this table is also not mentioned in up-dated UNFC table.
- (vi) It is noted that as on 1/4/2013, 6.89Million Tonnes of resources are available & remains are under reserves. On the other hand as on 1/9/20117 reserves are only 15.02 Million Tonnes and resources are increased to 25.53 Million Tonnes. Downgradable as reserves to resources needs to be fully explain & justified with all relevant facts & data.
- (vii) The Updated UNFC table may be supported with data how it arrives. 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.

8 Part A, Chapter 1(e): The following information should also be given:

| Details of prospecting/exploration already carried out : | | | | | |
|--|------------|--------|---------|----------|------------|
| Lease area explored under various categories (Area in Ha.) | | | | | |
| UNFC axis | Non Forest | Forest | Grid of | Depth(mR | No of Bore |
| | | | | | |

| | (in ha) | (in ha) | Exploration | L/Level) | holes(Core/RC/DT H) drilled |
|-------|---------|---------|-------------|----------|-----------------------------|
| G1 | | | | | |
| G2 | | | | | |
| G3 | | | | | |
| G4 | | | | | |
| Total | | | | | |

1. Part A, Chapter 1(i): Under the heading Future exploration programme, the programme for exploration of the whole area to G1 level as per the rule 12(4) of MCDR,2017,should be given. The year-wise programme of exploration should be given as per the Mineral(Evidence of Mineral Content) Rule, 2015 in the following format:

2.

| | | |
|--|--|--|
| | Name of prospecting /exploration agency- | |
| | i) Address- | |
| | ii) E mails- | |
| | iii) Phone /fax etc- | |

| FUTURE EXPLORATION PROGRAMME | | | | | | |
|------------------------------|-----------|--------------|--------------------------------|---------------|------------------|----------------|
| Year | UNFC axis | Area covered | No. of boreholes (Core/RC/DTH) | Grid interval | Depth(mRL/Level) | Total meterage |
| | G1 | | | | | |
| | G2 | | | | | |
| | G3 | | | | | |
| | G4 | | | | | |
| | | | | | | |

3. Part A, Para2(J): Under the heading Reserve & Resources as per UNFC, the following information should also be given:

| Geological Axis :-- | Depth (mRL/ Level) | Area | Resource (Million Tonne) | Grade |
|-------------------------------|--------------------|------|--------------------------|-------|
| For G1 - Detailed exploration | | | | |
| For G2 - General Exploration | | | | |
| For G3 – Prospecting | | | | |
| For G4- Reconnaissance | | | | |

| | |
|--|--|
| FEASIBILITY AXIS :-- | |
| Feasibility of mining | |
| Area considered non mineable under various items | |
| Mineral Reserves/ Resources Blocked /Non Mineable Category | |
| In G1 category in tonnes | |

| | |
|-----------------------------|--|
| In G2 Category in tonnes | |
| In G3 category in tonnes | |
| In G4Category in tonnes | |
| Enclosed feasibility report | |

| | |
|--|--|
| ECONOMICAL AXIS | |
| Cost of production per tonnes of mineral estimated | |
| Average Ex- mine price for last three year period | |
| Comment on Economic viability | |

4. Part A, Para2(K): The reserves depleted from the last approved quantity and reserve added after exploration should be discussed first and then the final reserve & resources figure should be given as per the table given below:

| | UNFC Code | Quantity in million tons | Grade |
|-------------------------------------|-------------|--------------------------|-------|
| A. Total Mineral Reserve | | | |
| Proved Mineral Reserve 111 | 111 | | |
| Probable mineral Reserve | 121 and 122 | | |
| B. Total Remaining Resources | | | |
| Feasibility mineral Resource | 211 | | |
| Prefeasibility mineral resource | 221 and 222 | | |
| Measured mineral resource | 331 | | |
| Indicated mineral resource | 332 | | |
| Inferred mineral resource | 333 | | |
| Reconnaissance mineral resource | 334 | | |
| Total Reserves + Resources | | | |

9 Para 5.1 Mining –the size of present working pit with their bench height in ore and Ob is not given.

10 Para 5.4.1- Machinery-The requirement of HEMM is given, but list of mining machinery deployed in the mine with their specification and output/ performance of equipment is also to be given.

11. Conceptual Mining Plan- The pit size, UPL, exploration proposal, Excavation, dump size, Quantity of waste/reject, land degradation reclamation etc for first five year and after next five year or for life of mine may also be given in tabular form also

12. Para 6.0 The number of present waste dump with their location (Grid wise), area covered and present height and how many dump stabilized and active is not clear. The concrete proposals of retaining wall for safety measures are not given, it should be proposed with total meterage with location of dump wise. The proposal of utilization of waste dump in backfilling of mined out area may also be described (if any).

13. PMCP Chapter

- i) Item b) the surface water is available in different pits, but testing of this water and effect on ground water quality is not analyzed.
- ii) The surface water/ mine water is using in plant and other, but this fact is not mentioned here.

14. Para 8.0. In the last approved scheme of mining the area considered for financial assurance was 165.0 hact., but in present submission it is considered and given only 137.8 hact. Whereas, no reclamation and rehabilitated area is claimed in the given table than how area is reduced please justified. .

15. Para 8.6 of PMCP. The copy of financial assurance is not found enclosed. . As per provision of Rule 27(1) of MCDR 2017, the financial assurance co-terminus with mining plan period in favour of Regional Controller of Mines, IBM, Ajmer should be submitted in Original with a copy annexed in the documents.

16. The environment monitoring report is submitted only for one seasons, it should be submitted for all the four seasons to check the exact situation of environment pollution.

17. Cadastral Map(plate-1a):- It should be authenticated by State officials.

18. Plate no 2- the co-ordinates of lease area should be marked on plan it self.

19. Surface Plan. The coordinate of all the boundary pillar is not given.

20. Surface Geological Plan and section :-

The UNFC code is not shown , Block wise UPL Not given, Assay value of all the bore holes for limestone is also not mentioned. Block wise 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. The lateral and depth wise extension taken for marking such zone of mineral may be detailed text part also.

21. 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.

22. Progressive Mine Closure Plan: Plate no 7. The table given for calculation of Financial assurance should be given on plate and correlate them with actual ground condition. Area of dump could not be considered till fully reclaimed and rehabilitate as

per actual litho and ground condition.

23. Environment Plan- plate no 8.. The environment control monitoring station not shown on the plates.. Hence the Environment plan should be prepare as per rule.
24. All the plates and sections are signed by only M K Garg, Whereas there are two qualified persons involved for preparation of this review of mining plan.
26. Each & every page of documents including annexure should be signed.
20. Some photographs representing the mine working, boundary pillar, stacks etc. should also be enclosed with the documents.
21. The minor typographical mistakes/correction/omissions observed in the plates as well as text should also be attended..
22. All the above maps/plate will be properly colour index & duly attested and authenticated with date of survey.
