

Scrutiny Comments on ‘Review and Updation of Mining Plan’ in respect of Itagi Limestone Mine of M/s Orient Cement Ltd., ML No. 2681, covering 519.00 Ha of area in Itagi & Mogla Village, Chittapur Taluk of Kalaburagi District, Karnataka State.

Only necessary information desired under certain paragraph may be given. The unwanted information/repetitive information's may be deleted.

COVER PAGE

1. Under Category it is to be mentioned as “A” (Fully Mechanized) /Opencast/Captive/Public Limited.

GENERAL

2. Para 1.0 (a): In this para, the details like Name, address, phone no., Fax, Mobile No and E-mail ID of the nominated owner may be given.

LOCATION & ACCESSIBILITY:

3. The Latitude & Longitude of Pillar no.1/285 is different from the reading given in the past approved document. The nomenclature of Boundary pillar No.1/285 may be changed to BP-A. Necessary clarification & correction may be done.

PART-A

4. Para 1.0 (j):
 - (i) The area under G-1, G-2, G-3 and G-4 may be given in a tabular form based on the exploration carried out in the past. The same may be shown in the Geological plan and sections as well.
 - (ii) Reserves & Resources may be estimated as per UNFC with respect to threshold value notified by IBM for limestone mineral.
 - (iii) Reserves/resources may be estimated by slice plan and cross sectional area methods separately and variance may be analysed and explained.
 - (iv) The reserves & resources given in Table No.1.8 may be substantiated by section wise calculation under different codes of UNFC classification.
 - (v) The blocked reserves in this plan period considered may be placed appropriately under UNFC classification as discussed during the site inspection.
5. Para 1.0 (l): Recovery factor of 90% may be supported by establishing time series or by field test conducted. The rest of the 10% is to be considered as losses (in form) or interstitial waste may be elaborated. The report of the same may be enclosed.
6. Para 2.0A (a):
 - (i) Existing dimension of the working pit may be enclosed in a tabular form indicating the top & bottom most mRL of the workings.
 - (ii) The existing dump details including area covered, quantity, no. of terraces & protective measures envisaged may be given in this chapter.

- (iii) Existing limestone stock present with avg. grade, year wise consumption & blending pattern may be discussed & tabulated.
7. Para 2.0 (b):
- (i) Separate table for Bulk density & recovery of each material (top soil, OB & Limestone) may be given for computing the tonnage.
 - (ii) In Insitu excavation table 2.1 & 2.2, for top Soil calculation only 30-50 cms from the top of the soil cover must be considered, as the top soil contains all the nutrients. The rest must be considered as Overburden (OB). Necessary correction may be done appropriately based on the above fact in the tables & in relevant part of the text & plates. Storage of top soil and its concurrent use may be plotted on their respective plates.
 - (iii) Year wise opening balance, production, consumption & closing balance of mineral reject may be given in a tabulated form.
 - (iv) In Table No.2.2, all the figures may be given in Tons instead of Million Tons. Also ROM is given in cum, the same may be corrected.
 - (v) In page no.69, it is mentioned as 0.82 Millions tons of sub grade will be utilized after blending. The sub grade may be replaced by mineral reject at all places in the text & plates.
8. Para 2.0 (b)(II):
- (i) The first 3 paragraph mentioned under this para may be deleted and the same may be covered in year wise production & development proposal for re handling of OB & stacking of mineral reject. The same may be incorporated in the table no.2.1 & 2.2 also.
 - (ii) During the field visit it was observed that low grade limestone mixed with soil lying towards northwest of the crusher is proposed to be re handled for recovery of mineral, year wise proposal of re handling may be given in the appended table. It is to be borne that the EC limit of the mine does not exceed at any point of time.

Year	Dump identification no	Year wise handling in Tons	Estimated recovery of material in Tons	Waste in Tons

9. Para 2.0 (c):
- (i) Year wise production & development information furnished in para 2.0(e) may be placed under this para.
 - (ii) Bench wise, mRL wise, section wise calculation may be furnished on yearly basis for production & development proposed in the plan period.
 - (iii) Individual year wise workings, development, top soil dumps, OB dumps, broken up area & stripping ratio etc. may be discussed with reference to the respective plan & sections.
10. Para 2.0 (e): In this para discussion on site for disposal of Overburden, ground preparation, dumping inside/outside the UPL and dumping ground proved for absence/presence of mineral may be discussed.

11. Para 2.0 (f): This Para may be rewritten in brief based on the conceptual land use pattern of the mine detailing the activities & measures planned for closure of the mine. Few sections of the same may be enclosed as plates with necessary modification.
12. Para 4.0(c): Year wise quantity, area covered, location, no of terraces & Engg. Measures proposed for top soil, Overburden & mineral reject may be given in a tabular column.
13. Para 8.6: 0.71 Ha of area under storage for top soil is considered to be fully reclaimed & rehabilitated in the last plan period and in this plan period part of the dumping is proposed on the same area. Clarification may be given & necessary corrections may be done.
14. Certificate from QP may be annexed as per the format prescribed by IBM. The document is submitted for RMP whereas it is mentioned as second modification to the approved MP. The same may be corrected.
15. Signature of the applicant in the Consent letter/Undertaking /Certificate must be in original and date to be given.

16. PART-B: (Plates)

All the plates must be submitted on the prescribed scale as per Rule 31(1) of Mineral Conservation and Development Rules, 2017

- a) Key Plan (Plate No.01): (i) Approach roads to the lease area may be marked. (ii) Demographic details may be given. (iii) DGPS coordinates may be removed from this plan.
- b) Plate No.03 may not be submitted & is not required.
- c) Surface Plan (Plate No.04 (a, b & c)): (i) Surface plan must be signed by the surveyor with certificate no. (ii) The surface plan may be submitted on 1:2000 Scale.
- d) Surface geological Plan (Plate No.05 a, b & c): Based on the level of exploration carried out and in accordance with Minerals (Evidence of Mineral Contents) Rules, 2015,G1,G2 ,G3 & G4 including blocked area may be shown in this plate. The same may be tabulated & indexed accordingly.
- e) Production & Development Plan(Plate No.06 a-e): Year wise mining benches, proposed plantation, embankment, fencing, garland drain, soil dump, sub grade stacking may be shown in progressive way on year to year basis with different colours prominently and indexed accordingly
- f) Financial Area Assurance Plan (Plate no. 10): (i) This plate may be corrected in accordance with the comments offered for para no. 8.6, text part. (ii) A detailed break up of the area of the respective activity may be given and shown only in the outlines.
