

SCRUTINY COMMENTS OF DRAFT REVIEW AND UPDATION OF MINING PLAN SUBMITTED UNDER RULE 17(1) OF MCR, 2016 BY M/S CHOWGULE AND COMPANY LIMITED FOR KARADIKOLLA IRON ORE MINE, ML NO. 2546, OVER AN EXTENT OF 103.68 HA(AS PER CEC)/ 100.0 HA (AS PER LEASE DEED) IN BHAVIHALLI VILLAGE,SANDUR TALUK, BELLARY DISTRICT, KARNATAKA STATE, PRIVATE/ 'A' CAT/ FULLY MECHANISED /OPENCAST/FOREST/NON-CAPTIVE FOR THE YEAR 2018-19 TO 2022-23.

**COVER PAGE:**

1. "Review of Mining Plan" is to be replaced with "Review & updation of Mining Plan" in the cover page and entire document & plates where applicable.
2. Block period may be mentioned as plan period in cover page.
3. It is expected to indicate category of the mine as A(FM-Fully mechanized ), instead of A(Mechanized).
4. The type of forest land, whether ordinary forest or reserve forest may be given and also in the relevant places.
5. The mine code and the registration number should be given. In the light of the above remarks, the text and the plates may be attended, wherever applicable.

**GENERAL:**

1. Para 2.(b) : Page No.14 &15 : The ML no. of the 'C' category Mining Lease on North-western side may be given correctly.
2. Para 3.3 : Exploration :Table 3.3(i) : As per last approved document, the 26 boreholes were proposed during the year 2014-15 in the Central block. Therefore it may be corrected accordingly in the table.
3. Repetition of tables and information to be avoided.
4. In case of repletion of tables and information, reference to the table no. and page no. may be given.
5. The lease area of 103.68 Ha (as per CEC) may be mentioned instead of lease over an area of 100.0 Ha as per lease deed, 103.68 Ha as per CEC lease sketch in the certificates & in entire document where applicable.
6. Any information attached as Annexure may not be given in the document; reference of the Annexure will suffice the requirement.
7. Only desired information may be given as per the standard format given in the appraisal of the Mining Plan 2014.
8. Certificate from the owner may be corrected as per the standard format given in the appraisal of the Mining Plan 2014.
9. **Introduction** may be given in brief covering various aspects of the company. The detailed information covered in the various chapters may be deleted.
10. **Para 1(f):** In page no 10, RQP may be deleted.
11. **Para 3.3:** A single table may be given with reasons for deviation from the planned and actual with respect to exploration, excavation, reclamation etc.
12. **Para 3.6:** The information may be furnished appropriately in this para.

## PART-A

1. Para 1(e): A tabular column may be given indicating the year of drilling, type of drilling, no of boreholes, meterage, area covered, category under G1,G2,G3 & G4,block,grid pattern etc. since the inception of the mine.
2. Para 1 (e) (ii) : (a)Details of the drilled boreholes of Phase-III in respect of location, type of borehole, vertical/inclined ,depth of the borehole etc., may be given in a tabular form. (b) The details of boreholes of phase-III considered for estimation of Reserves/Resources may be described. (c) 26 borehole logging data may be enclosed.
3. Para 1 (e) (iv) : The year-wise expenditure incurred in all the three phases of exploration may be furnished.
4. Para 1 (k) : The estimation of reserves/resources may be made as per the Minerals(Evidence of Mineral Contents) Rules, 2015. For General (G2) and detailed (G1) stages of exploration, the depth continuity of mineralisation may be considered limited to the depth up to which direct evidence of mineralisation is established. The lateral extension to be considered for resource assessment shall depend on geological considerations supplemented by geological continuity by mapping or by other means and in any case shall not be more than 50% of the grid spacing of the probing points. Accordingly, the geological sections may be modified and the section wise calculations of reserves/resources may be furnished. It is observed that the boreholes are not intersecting many Iron ore bands shown in the geological sections. The bands which are intersected by the bore holes may be considered for estimation of proved mineral reserves upto the established depth with maximum level of confidence for evidence of mineral contents. After recalculating the reserves/resources, the changes may be carried out in the relevant paragraphs of the chapter in the text.
5. **Para 2 (a): (i).** It is expected to describe in brief about the existing and the proposed method of mining operations along with the dump spread details, instead of giving together without any clarity of the existing the proposed. (ii). Dimension of the existing pits of all the three blocks may be summarized in a tabular column indicating the maximum depth with their respective RL. The no. of OB and ore benches in each block may be incorporated in the above table.
6. **Para 2 AI:** In Table 2(b)(i) , Year-wise total may be given along with percentage of recovery. A separate table may be inserted indicating year-wise tentative excavation in Tons.
7. **Para 2AI:** Year wise, RL wise or bench wise volumetric calculation may be given for the plan period.
8. **Para 2 AII:** Year-wise dump re-handling may be given in a tabular form as per the standard format.
9. **Para 2 AII (Extent of Mechanization):** Method of computation of drills, excavators & tippers may be re-examined.
10. **Para 2A(e) :** In table no2(e )(i),the total no of benches may be corrected. In table no. 2(e )(ii),the column of average depth may be verified. In table no. 2(e )(vii), Dump No. may be given against each year.
11. **Para 2A(f):**Table no. 2(f)(vi) & Table no. 2(f)(vii) may be clubbed as one table.
12. **Para 8.3.5:** In table 8.3.5(i), retaining wall & garland drain are not proposed for the plan period. The same may be incorporated.

13. **Para 8.6:** In, Table No.8.6 (i), Area considered as fully reclaimed & rehabilitated should be cross checked.
14. Para 8: At the end of the para 8.6, signature of the QP is not appended.

#### ANNEXURES :

1. A copy of educational and experience certificates qualified persons may be enclosed in place of RQP certificate.
2. Annexure-1 (EC clearance) is not legible to read.
3. Photos of 26 boreholes may be enclosed. Borehole logs of 26 boreholes drilled may also be enclosed.
4. In Annexure-14, sieve analysis report has not been signed by the concerned authorities and in Annexure-15(Analysis results) is not signed by the concerned authorities.
5. The borehole logging data of 44 boreholes drilled which have been projected in the sections I-I' to Z-Z' may be enclosed.
6. Approved R & R may be annexed
7. Form J may be attached in support to the Exploration done
8. In Form 'J' Color & Index of the plates to be changed appropriately.
9. Signature to be done in NABL accredited lab certificates.
10. CEC letter for its concurrence for implementation of R & R plan may be annexed.
11. The feasibility study report may be signed by the lessee/the qualified person.

#### PLATES:

1. The geological index is not vis-à-vis to Plan in the geological plan. The name of sections I, J, K, L and M may be given properly in the geological plan. The lithology beneath the borehole may be shown in the sections.
2. Plate 4(Surface Plan): All the surface features may be shown with appropriate colour coding of the index.
3. Plate No.8: The area of proposed waste dump to be proved for non- mineralized area by drilling boreholes, and submitting the necessary NABL accredited certificates before the dumping is started.
4. Plate 9 (Reclamation Plan): This plan should properly highlighted the proposed environmental monitoring station at core-zone, proposed year-wise afforestation and other environmental Protective measures, back-filling, development of mined pit in water reservoir etc. during plan period.
5. Plate 10(Environment Plan): Monitoring Locations to be shown in difference colours. The plan should show year-wise progress of backfilled area, the garland drains, retaining wall of appropriate size around the backfilled area taking the contours into consideration. Necessary changes may be incorporated in the relevant text.
6. Plate 12(Financial rea assurance plan): Break up of Land Use Pattern of pit, dump. Infrastructure, Green belt, road etc. to be given in different colour coding.