

**SCRUTINY COMMENTS ON REVIEW AND UPDATION OF MINING PLAN OF KAREKURCHI MANGANESE ORE MINE ML. NO 2248 OVER AN AREA OF 11.74HA IN KAREKURCHI VILLAGE, TIPTUR TALUK, TUMKUR DISTRICT, KARNATAKA STATE SUBMITTED UNDER RULE 17(1) OF MCR, 2016 OF M/S JAYARAM MINERALS.....PRIVATE/ 'A' CAT/ MECHANISED/NON-FOREST/ NON-CAPTIVE FOR THE PERIOD....2017-18 TO 2020-21.**

**COVER PAGE:**

1. The lease period as per the lease deed may be given correctly. The Review and Updation period should be corrected.

**GENERAL:**

1. The last mining plan proposals are approved for the period 2011-12 to 2015-16. Therefore, the present Review and Updation should have been prepared for 2016-17 to 2020-21. At different places the proposal year is given different viz., at Table-16 at page 35 it is given for 2015-16 to 2019-20. The document appears to be prepared in casual manner.

**INTRODUCTION:**

1. The grammatical and spelling mistakes may be avoided in the document.
2. In the second paragraph, sequence of events may be given in a chronological order.
3. A copy of the deemed extension letter of mining lease period (i.e., CI.09.MMM.2015 dated 16.3.2015) may be referred in this para and may be enclosed as Annexure.
4. Page no.2: In third para, the Environment Clearance has been given for manual method of mining but not for mechanised method of mining It is not relevant to refer here and the annexure may be deleted.
5. Boundary pillars have not been erected as per the norms. The same may be erected and the photographs may be enclosed.
6. Para 1(d): All the minerals may be mentioned as given in the lease deed.
7. Para 2.0: Location & Accessibility: (a) Lease Details: The relevant Annexure of deemed extension letter may be enclosed. This para may be given in the clear text form.
8. Para 3.1: The information consisting of particulars of IBM approvals, ML extent in Hectares, Mining plan/Scheme period and IBM approval letter no. and date may be furnished in a tabular form.
9. Para 3.3: Mining operations were not carried out during last occasion i.e., 2011-16 for Mn ore. The factual information may be furnished with justification.
10. Para 3.3.1: Exploration: The reason for not carried out the drilling of the proposed 18 boreholes may be furnished. Review should be given for 2011-12 to 2015-16. The year 216-17 & 2017-18 are not required.
11. Para 3.3.2: The specific reason may be given for deviation in production and development.

12. Para 3.3.3: Afforestation Programme: The correct information may be furnished under this para. The reason for not carrying out plantation may be furnished.
13. Para 3.3.4: Reclamation and Rehabilitation: The information about no. of dumps stabilised and their location may be furnished.
14. Para 3.3.5: Control of dust, noise and ground vibrations: A copy of Regular monitoring data of noise levels has not been referred as annexure here.
15. Para 3.6 is not applicable in the instant case. It should be clearly indicated.

#### **PART-A**

1. Para 1 (e): (i) The reasons for not carried out the proposed exploration during the mining plan period of 2011-16 may be furnished. (ii) The year wise details of exploration carried out may also be furnished.(iii) The depth of trial pits carried out may be given correctly in a separate column in the table of Trial pits Locations.(iv) The range of depth of trial pits may be mentioned. No depth has been mentioned in Annexure-04B as mentioned in the text. (v) The paragraph may be properly furnished. The chemical analysis reports of the samples collected from all 16 trial pits have not been enclosed.(vi) The year- wise expenditure against the year- wise exploration carried out may be given.
2. Para 1(f) & (g): The Surface features as observed during the inspection like stock of Mn ore, old workings, dumps etc. may be shown in the surface plan(Plate no.3) and Geological Plan(Plate no.4).
3. Para 1(i): Future exploration programme may be proposed so that the entire mineralised area of Mn ore can be established in the mining lease area. The same may be shown in the geological plan and sections in plate no. 4 & 5.The paragraph above Table no.6 in page no.18 is not clear to understand. This may be given correctly.
4. Para 1 (j): The Proved Mineral Reserves of Mn ore zone under 111 code of UNFC may be furnished. The different grades of recoverable Mn ore of ROM may be described.
5. Para 1(k): Annexure no.03: In the Reserves/ Resources table, the mineable reserves may be replaced by Mineral Reserves. Under grade column, recovery, range of grade of Mn ore, saleable ore of Mn, intercalated waste etc. may be mentioned. The same may be given in the tables under the para 1(l) also.
6. Para 1(l)(a)&(b) : These paras may be properly presented.
7. Para 1(l) ( c) : It may be stated in this para that the lateral influence has been taken less than 50% of grid spacing.

#### **MINING:**

1. Para 2 (a): Existing mining method may be described in this paragraph giving the existing dimension of the pit in a tabular column and followed by the proposed method of mining separately, instead of giving together.
2. Para 2 (b): Table 10A may be deleted from page no.25.

3. Para 2 (c): Section wise calculation and year wise production & development plan is to be included in a tabular form. Handling of material from stockpiles w.r.t quantity and quality to be discussed.
4. Para 2 (e): The place of dumping overburden /waste is to be established for non mineralized zone by drilling or trial pit before proposing dumping. Details of the findings to be furnished in this para.
5. Para 2 (f): The conceptual plan need to be revised based on the proposals given in the PMCP and R&R.
6. Para 3 : Details on minimum and maximum depth of water table, minimum and maximum depth of working pit, average rainfall, catchment area and pumping arrangements to be discussed in drainage pattern.
7. Para 4(a): Existing dump details may be furnished in a tabular format mentioning dump no, location, extent and height. Total waste handling as mentioned (2,75,760 CuM) in table-16 & table-10 is not tallying.
8. Para 4.0 (b): Proposed dumping parameters should only be discussed in this para, the irrelevant description may be removed.
9. Para 4(c): The detailed proposals for protective measures may be furnished.
10. Para 6.0 (a) & (b) : Capacity of the mobile screening plant should be discussed in brief. Water balance chart to be given indicating the quantity of water required for mining and processing, sources of supply of water, disposal of water and extent of recycling.
11. Para 6.0 (g): The quantity of water required for domestic consumption may be corrected.
12. Para 8.1: The existing land use pattern table may be corrected and furnished under the head of existing land use pattern.
13. Para 8.2: Mitigate measures to control air quality, water and noise pollution may be furnished here.
14. Para.8.3.5: The details under the item (others) in Table 23A, 23B, 23C & 23D (to be corrected) are to be crosschecked.
15. Para 8.6: Table 26 is to be corrected from the previous approved mining plan/Scheme of Mining and correct information is to be furnished. The details furnished in column 5/6 need to be checked and given appropriately.

#### **PLATES:**

1. Plate no.1: Key Plan: The wind rose diagrams may be shown. Nearby ML areas are required to be demarcated in this plan.
2. Plate No.1B :Location Plan: All the approach roads leading to the lease area, be marked prominently
3. Surface Plan (Plate no. 3): The mineral stock may be shown on the surface plan. Forest and non forest must be demarcated clearly.
4. Surface Geological Plan (Plate No.4): The Geological plan to be signed by the Surveyor.
5. The naming of all corner pillars of mining lease may be given in all the plates.
6. Plate no.5: Geological Sections: The section BB' is not matching with respect to geological plan. This may be corrected. The Trial pits numbers may be marked in the sections.

7. Plate No.6 A, B, C & D: The direction of advancement of benches need to be given with vertical & lateral distance.
8. Conceptual Mining Plan (Plate no. 8): The plan and section should be prepared and submitted in a way to present, what would be position of workings, waste dumps, stacks, afforestation and other infrastructure, etc at the end of plan period.
9. Environment Plan (Plate no. 10): The plan may be prepared on an appropriate scale.
10. Financial Area Assurance Plan (Plate no. 11): Only outlines of the proposed mine working, dumps, stacks, etc. covering all the items with their respective areas under the financial assurance table 26 at the end of F.Y. 2020-21 in different colour should be shown in this plate.

**ANNEXURES:**

1. The certificate furnished by qualified person is not as per standard format.
2. The certificate in support of experience of qualified person is not enclosed.
3. Annexure 8: The feasibility report is to be signed by the lessee/ Qualified person.
4. All photographs should be attached at the end of text.

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