

Scrutiny comments on the Mining Plan for Karhi Chandi Limestone Mine over an extent of 242.127 Hectors in Karhi,Chandi & Khapradih Village, Simga,Tehsil,Baloda Bazar District of M/S Shree Cement Limited submitted under rule 16(1) of MOAHEM concession rules 2016. and inspected by shri R.K.Das Sr ACOM and Shri J S Hada AMG on 30/9/2016

1. The person who has prepared the document may be mentioned as qualified persons instead of mining engineers at cover page and at certificate.
2. There are two electrical high tension line passing through the mineralised area and same has not been marked on surface geological plan. Moreover the blocked reserve needs to be calculated and reflected accordingly.
3. Geological report of area authenticated by state Govt. authorities is not enclosed.
4. **Mining:** Five yearly excavation is given below the HT lines. The work planning needs to be changed or shifting of HT line proposal needs to be given before planning excavation of limestone below HT lines.
5. In the given Para the proposal is given for five years whereas the excavation proposed only for one year the same needs to be justified.
6. **Requirement of HEMM:** In the given Para it is mentioned no. of working days in 5 year 240 days. It should be in a year . The correction to be done accordingly.(Table 5-6)
7. **Subgrade drilling:** There is no proposal of subgrade drilling as proposed. The same should be reviewed and accordingly do the correction.
8. **Disaster Management plan:** A proper Disaster Management Plan based on the risk assessment and clearly indicating the chain of activities along with the name and designation of key persons with infrastructure (**hospital**, fire station, police station, etc.) should be furnished. The contact no. of the responsible person to be given.

Plates:

9. **Plat no.1 (key plan): The details of the deficiencies found on the plate are as follows**
 - (i) The road to be marked with different colour line differentiating whether it is village, public road, highway, etc and also it should marked properly in index.
 - (ii) Contours should be clearly visible at not more than 20 meter intervals and should be index.
 - (iii) Co-ordinates of extremities of lease area are not shown in the plan.
 - (iv) The forest area, govt. land, agriculture land, etc should be marked in the plate and also in index.
 - (v) The plate to be indexed properly, different colour code should used for showing different features.
 - (vi) Population of the villages falling within 5 km radius to be furnished in tabular form.
The plate should be revised.
10. **Khasra Plan:** The lease plan enclosed with LOI letter with DGPS co-ordinates authenticated by state government needs to be given . The enclosed plate-3 and annexure -9 DGPS co-ordinates are not authenticated by state government authorities.
11. **Surface Plan:** During the field visit it has been observed that southern side of ML adjacent to SCL plant area within lease electric line is going through is not shown and also some

- hutment & other infrastructure (shop and housed), etc. not shown in the plate. The area to be surveyed and accordingly the plate should be revised. (Plate 4)
12. **Surface Geological Plan:** In the given para it is mentioned that for establishing reserves 54 bore holes considered but in the plate only 48 boreholes shown. In geological plan G1, G2, G3 and G4 scale exploration area should be marked properly as per UNFC and Minerals (Evidence and Mineral contents) Rules, 2015 and same should be index. The reserves blocked due to Ht line and other infrastructure should be marked in the plan and accordingly section should be revised. (Plate 5A)
 13. **Production and development plan:** The proposal for production and excavation is given in two different locations with four waste dumps, the same should be justified. As mentioned in the text that the total lease area is mineralised therefore it should be clearly mentioned that the dump is temporary and also planning should be given for rehandling the waste dump and the same proposal should be discussed in the text.
 14. **Environment Plan:** The plate showing the environment plan the scale is mentioned 1:2000. The correction to be done. (plate 7)
 15. **Conceptual Mining Plan:** A proper conceptual plan based on the long term design parameters of the mine covering all the mining and allied activities has not been furnished. All the activities should be furnished with extent of area and quantity involved in the form of 5 yearly blocks up to the lease period. In the given plate the scale is mentioned 1: 2000 but actually the plan is not shown as per the scale. The plate to be revised accordingly and same should be modified in text.
 16. **Progressive Mine Closure Plan:** In the given plate also scale is mentioned 1:2000 but plan is not as per scale and same is for reclamation plan and financial assurance plan. The plate given for reclamation plan and progressive mine closure plan are identical. The correction to be done. (plate 9).
 17. The base line information of air, water noise data is not supported by date of survey of sampling.
 18. A certificate to the effect that all the plans and sections are prepared based on the lease map authenticated by the state Government to be given by qualified persons on each plate.
 19. all the plates the tehsil is mentioned as Sigma whereas in the document it is mentioned Simga, the correction to be done accordingly.

Annexure:

20. All the plates should be index properly as the features shown in the plan with the same colour code for clarity and signed with date.
21. Since area is already DGPS surveyed a condition in certificate about CCOM -2/2010 Circular needs to be removed.
22. In the list of Annexure 5 is said copy of mining lease deed whereas it is copy of letter of intent, the correction to be done accordingly.