

Scrutiny comments on examination of draft Modification of approved mining plan submitted under Rule 17(3) of MCR'2016 in respect of Kaladgi Limestone Mine (M.L.No. 1733) of M/s. Bagalkot Cements & Industries Ltd, over an extent of 167.32 Ha. situated in Kaladagi Village, Bagalkot Taluka, Bagalkot District of Karnataka State.

- 1) **General:-** i) The last approved document was valid up to the period of 2010-11 only and no document was approved for the next block period i.e. from 2011-12 to 2015-16. Reason for not submitting the scheme of mining needs to be discussed. ii) The letter of extension of lease period issued by the State Government should be enclosed. iii) In text it is mentioned that as per MMDR Amendment Act, 2015 lease period is up to 2052. However, the lease was originally granted to M/s Mysore Minerals limited on 13.03.1981 and transferred to M/s. Kanoria industries Ltd on 05.10.1996. Therefore, deemed extension upto 2052 needs to be clarified and lease period to be mentioned as per the extension letter issued by State Government. iv) It is stated that Annexure ID is copy of transfer of liabilities from M/s Bagalkot Udyog Ltd to M/s Bagalkot Cement & Industries Ltd, whereas annexure ID is summary record of proceedings of hearing held on 20.09.2007. v) At page no. 3 the sentence regarding submission of the document under rule 17 of MCR 2016 needs to be rechecked and corrected. vi) During inspection it was observed that no boundary pillars are erected. So Boundary pillars should be erected as per the specification and photographs to be enclosed. vii) DGPS survey of the lease area should be carried out and plans approved by the State DMG as per circular 2/2010 should be submitted. viii) At page no.5 under para (a) IBM, Registration number need to be mentioned.
- 2) **Location and Accessibility:-** i) The co-ordinates of the boundary pillars should be taken in datum WGS-84. Accordingly correction should be made in all the relevant pages and also in plates. ii) Lease period is varies from page to page this need to be rechecked and corrected.
- 3) **Details of approved mining plan/scheme of mining:-** i) The compliance of violation pointed out by IBM is not discussed properly. ii) Reason for modification of the mining plan needs to be discussed at para 3.6.
- 4) **Geology and Exploration.**
 - i) The topography of the lease area is not discussed properly. The elevations within the lease area and nature of the land are not discussed properly.
 - ii) If exploration is carried out by the lessee himself address and other details of the lessee may be given.
 - iii) At page no.16 it is mentioned that 12 core holes were drilled in the 5th year of earlier plan period i.e. during 2015-16. However no approved document is available for the said period. So the sentence needs to be corrected.
 - iv) The entire mineralized area should be explored under G-1 level of exploration and exploration proposals should be made in the grid pattern suitable for nature of the deposit as per Minerals ((Evidence of Mineral Contents) Rules 2015. Exploration proposals should be made from the year 2017-18 only. On geological plan total 47 boreholes are proposed and in text only 46 boreholes are shown.

- v) At page no.18 total is written as toto.
- vi) Geological mapping is done on 1:2000 scale, but at page no-21 it is mentioned as mapping is done on 1:1000 scale.
- vii) The Reserves should be estimated as on 01.04.2017.
- viii) The reserves which are blocking in the seasonal nallah should be estimated in the remaining resources.
- ix) Compared to total explored area and considering safety barrier for electricity line and nallah the reserves /resources estimated appears to be on higher side. This needs to be rechecked and corrected.
- x) The cross section should be drawn at 100mtr interval and reserves should be re-estimated by projecting drilled boreholes on the cross sections drawn at 100mtr interval.
- xi) Detailed calculation should be given for reserves/resources estimated under different level of UNFC classification.

5) Mining:-

- i) The existing method of mining is not discussed and the proposed method of mining is mentioned as fully mechanized mine in some place and OTFM in some places. This needs to be corrected.
 - ii) The proposed pit design parameters are not properly discussed as per the pit design.
 - iii) The total tentative excavation, ROM in the cubic meter and quantity of ore mentioned in tones in the table at page no.33 are incorrect. Same should be corrected in all relevant pages.
 - iv) The dumping proposals should be made away from the safety barrier of electric line.
 - v) The pit design para meters given at page no.37 are incorrect.
 - vi) The proposed excavation for waste and ore in varies from page to page and quantity given in cum and tones are not matching.
 - vii) The conceptual mining planning up to the life of the mine is not described properly.
 - viii) The disposal of waste is not shown properly the quantity is varies from page to page .
 - ix) In the table given at page no-43 height of the bench given for each year needs to be rechecked and corrected. And volume should be given before the tonnage.
- 6) Progressive Mine closure plan:-**
- i) The rule under which the PMCP is submitted needs to be rechecked and corrected.
 - ii) At page no 50 the land use details which is mentioned as present, end of scheme period and end of mine life is to be corrected as present, end of plan period and life of the mine. The land use details for life of the mine needs to be rechecked and corrected.
 - iii) Summary of year wise proposals of plantation, construction of retaining walls, garland drains etc should be given year wise at item 8.3 with quantities and dimensions.
 - iv) At page no 57 it is stated that bank Guarantee for Rs-27,79,200 is submitted to RCOM, and enclosed as annexure vi. However the bank guarantee which is enclosed as annexure vi is valid upto 31.08.2018 and amount is Rs 3,90,000 only. So a fresh bank guarantee for Rs.27,79,200 valid up to plan period should be submitted along with final submission.

Plans and Sections:-

- 1) **General:-** i) As per CCOM circular No2/2010, Geo referenced cadastral map complying all the requirements need to be submitted. ii) The lease area is not properly marked on the toposheets and toposheets number in which lease area falls need to be checked.
- 2) **Surface plan:-** i) Surveyor signature with certificate number is not there on the surface plan. ii) The R.L's mentioned in the surface plan are not matching with the R.L's mentioned on toposheet for the lease area is not matching. iii) The co-ordinates of the boundary pillars should be given in WGS-84 datum.
- 3) **Geological plan:-** i) Section lines should be drawn at 100 meter interval. ii) UNFC codes mentioned on the cross sections are not matching with UNFC codes under which reserves/resources estimated. Index also mismatching. iii) On cross sections Geology should be shown boundary to boundary.
- 4) **iv) Production and development plan and sections:-** i) The production proposals given on plans and sections need to be rechecked and corrected. ii) Proposed R.L's are not mentioned on plans and sections.
- 5) **Reclamation plan:-** i) Dimension of proposed Toe wall and garland drain should be mentioned on reclamation plan. ii) The year wise plantation proposals should be shown by different colors.
- 6) **Environment plan:-** i) A new railway line is passing with in 500mtr from the lease area and same is not shown ii) Environmental stations are not shown in the working places.
- 7) **Conceptual plan:-**i) The land use details of the present and five year plan period and at the conceptual period should be given.
- 8) **Financial Assurance plan:-** i) The area considered for financial assurance should be shown by different colors and indexed. Table showing area considered for financial assurance under different activities should be given.