

## ANNEXURE-I

**Scrutiny comments on examination of draft Modification in Mining Plan submitted under rule 17(3) of MCR' 2016 in respect of Kalasakoppa Limestone Mine (M.L.No. 2360) of Shri.G,S.Horatti, over an extent of 4.856 Ha, situated in Kalaskoppa Village, Bagalkot Taluka, Bagalkot District of Karnataka State.**

**1) General:-**

Letter of extension of the lease area up to 02.07.2052 as per the MMDR Amendment Act-2015 needs to be enclosed.

**2) Location and Accessibility:-** i) Co-ordinates given for BP No-1 is incorrect. ii) Land details should be mentioned as per the land records issued by the authorities and copy of the same should be enclosed as annexure. iii) Co-ordinates of the lease boundary are not properly mentioned at page no-4.

**3) Details of approved Mining Plan / Scheme of Mining:-** i) At page no-6 it is mentioned that form k is enclosed as annexure VIII, but form k is not enclosed and borehole logs which are enclosed X are not in proper order. Log sheets of individual boreholes are not enclosed. ii) The DTH boreholes cannot be considered and DTH holes are not drilled in the last approved plan period, so Details of DTH holes given in the Review chapter should be removed. iii) Actual production should be mentioned as per the annual returns submitted to this office. iv) It is stated that 320 plants were planted in the year 2016-17 however during field visit it is observed that no such plantation was made. The plantation details should be rechecked and corrected. v) The violation pointed out by IBM and compliance position should be discussed in detail. Copy of the latest violation letter should be enclosed.

**4) Geology and Exploration:-** i) The topography of the lease area is not properly discussed. The highest and lowest elevations of the lease area are not mentioned. ii) Strike of the formation should be given in whole circle bearing. iii) The details of waste available in the lease area with thickness should be discussed in the local geology of the lease area. iv) At page no 12 year of drilling is mentioned as 20017 instead of 2017. v) DTH holes cannot be considered for estimation of reserves. vi) Log sheets of all the boreholes with chemical analysis which are considered for estimation of reserves should be enclosed. vii) Chemical analysis of the waste rock available in the lease area should be enclosed. viii) Exploration is not carried out in the regular grid pattern as per the Minerals (Evidence and Mineral Contents) Rule-2015. So few boreholes may be proposed to explore entire lease area under G-1 level of exploration in the regular grid pattern as per Minerals (Evidence and Mineral Contents) Rule-2015. ix) Reserves/resources should be re-estimated as per UNFC classification by projecting core drill holes on the cross section. The DTH holes cannot be considered. x) Date of reserve estimation should be as on 01.04.2017.

- 5) **Mining:-** i) The stripping ratio mentioned in the table at page no-26 is incorrect. Handling of topsoil cannot be considered for calculation of stripping ratio. ii) The working proposals should be changed base on the re estimation of reserves as per the scrutiny comments. The working proposals should be made in area where reserves are estimated under proved and probable category of UNFC classification. iii) The co-ordinates given for working proposals in the table at page no-29 are not matching with the production and development plans.iv) On pit layout plan for 2017-18 working proposals were shown from B-B' to F-F' but in text it is stated that working will be carried out in section C-C' to F-F'. The year wise working proposals should be discussed as per the pit layout plans. v) The year wise co-ordinates given for temporary dumping are incorrect. vi) Instead of backfilling the mineralized pit he waste may be dumped in virgin area temporarily and same may be utilized for backfilling the pit after exhaustion of mineral. vii) It is stated that entire top soil will be utilized for making bund of 3.00m height along the lease boundary. However it appears 3.0m height bund will be little higher side, so the proposed bund height should be rechecked, if topsoil remains after making bund that should to stacked separately for future use and area earmarked for topsoil dump with location, length, width and height should be mentioned. viii) Compared to total lease area and area already degraded the proposed topsoil quantity given or the life of the mine appears more. This should be rechecked and corrected. ix) Under conceptual mine planning the area degraded (land use) in five year, ten year and upto the life of the mine should be discussed. x) The waste dump proposals should be modified as per the scrutiny comments and area earmarked for waste dump with length, width, height and no of terraces proposed if any should be discussed.
- 6) **Progressive Mine Closure Plan:-** i) The topsoil utilization and storage should be modified as per the scrutiny comments given in the mining chapter. ii) Compare to proposed bund formation the plantation which is proposed 50 plants /year, during the plan period is very less. The plantation proposals should be made covering entire safety barrier in the five year plan period. Plantation proposals should be mentioned in the table showing year, area covered, no plants proposed etc. iii) The land use details and area considered for financial assurance may be re-estimated based on the scrutiny comments in the mining chapter regarding waste dump management and stacking of topsoil for future use.

**Plates:-**

- (i) **General:-** The DGPS plan authenticated by state government is not submitted.
- (ii) **Surface Plan:-** During field visit it was observed that topsoil was stacked near pit no- 1 same is not shown on the surface plan.

- (iii) Geological Plan and Cross Sections:-** i) Lithology shown on some of the cross sections are not matching with the surface geological plan. ii) On cross section it was observed that lithology is not shown up to the drilled borehole.
- (iv) Conceptual Plan:-** On conceptual plan area put under use during five year, ten year and up to life of the mine should be marked and land use details of the same should be given in the table.