

Scrutiny comments on examination of Mining plan of Pudupalayam Lime stone mine, over an area of 22.96.0 hect in village – Pudupalayam , Taluk & District – Ariyalur, submitted by The M/s.Tamilnadu Cements Corporation Limited.

(Cat 'A' / Machanised /captive/Non-Forest)

- 1) The document submitted as A- OTFM which is not described as per MCDR rules. Only A and B category mines is described in MCDR-2017.hence the Mining Plan submitted should be in A category.- in cover page.
- 2) The consent letters and certificates should be signed by Authorized signatory only. Hence all the above letters must be signed by authorized signatory.
- 3) The mining plan has not prepared as per the guideline of IBM Manual on Appraisal of Mining plan 2014.
- 4) The Certificates are to be furnished as per the guide line at Part –B, Para 9.
- 5) Para 3.1 .It is applied area “ The name Lime Kankar &Limestone Mine” should be change as Lime Kankar & Limestone Deposit
- 6) Para 3.4 The Sentence Fresh applied for Quarrying Lease “ has to be change as Fresh applied area for mining lease.
- 7) Page-2- All the points stipulated in the letter no 3997/MMA.2/2019-1 dated 02.08.2019 is not mentioned . point “b) should also be included.
- 8) Page-4- The copy of authorized signatory should be enclosed as mentioned in this page last para.
- 9) Para 3.13 Page No.8: The given Boundary pillars are to be fixed as per the CCOM circulars and the latitude and longitude are to be marked in the pillars. In case of fresh grant of ML a precise area demarcation map demarcating with Survey numbers as well as longitude and latitude of Survey of India to be indicated. Details of recommended area to be given with geo referenced co-ordinates (to be certified by State Government preferably with Ground Control Points) has not been enclosed.
- 10) Para 6.3: Page No.18: The geological plan with location of borehole markings submitted by the State Geological Department report has to be enclosed.
- 11) Para 6.4.2: Page No.19 & Plate No.II : The borehole DD4/2, PPM-13, PPM-19, PD4/2 details of the borehole along with chemical analysis reports are not enclosed in the report. In the absence of exploration details estimation of reserves cannot be examined.
- 12) As per the guidelines Part-A 1.0 (f) (g) (h) (i) (j) (k) are not covered in the text properly.
- 13) Page-11- para5.1- The details about the geological exploration carried out should be explained with number of bore hole falls in the lease area/adjacent area etc.
- 14) Page-17- para-6.2- In local geology nothing is mentioned about the topsoil which should be included as observed in the field.
- 15) Page-19-table para-1- Recheck the bore hole demarcated in geological plan and mentioned in this page as per the map provided by the state-DMG.
- 16) Page-19- para-2 & 3 – The reserve and resources should be recalculated as advised during the field visit.
- 17) Page-19- para-4 & 5- The drilling should be completed within first two year of MP period.
- 18) Page-20- The reserve and resources (RLs) should take Topsoil into consideration which was observed during field visit.
- 19) Para 6.4.3: Page No. 20: The chemical analysis reports of the borehole logs are to be enclosed as per the exploration carried out by State Geological Department.
- 20) Page-21-para-6.5.3- The topsoil and marl should be taken as waste in the table.
- 21) Para 6.5.3: Page No. 21: All the sections strike influence considered for estimation of reserves is not correct as per the Mineral Evidence & Mineral Content Rules, 2015. It should be checked and based on boreholes drilled by the State Department and as per the discussions with Qualified Person in the field the reserves assessment should be modified.
- 22) Page-21 & 22 -para-6.5.4 & para 6.5.8- The reserve and resources have not been estimated properly considering the Minerals (Evidence of Mineral Content) Rule 2015 norms.
- 23) Page-22- The future exploration programme should be completed within two years of MP period.
- 24) Para 6.5.8: Page No.22: The assessment of reserves should be modified based on the above scrutiny comments.
- 25) Page-23- para7.1.a- The category of mining operation should be mentioned as A category.
- 26) Page-23- para-7.2.1- The topsoil and waste generated during the individual period should be included in the table.
- 27) Page-23-para7.2.1- Year wise development and production should be recalculated and rescheduled based on the total reserve in category 111

- 28) Para 7.2.1, Page No. 23: The year wise development proposals are tentative excavation in cu.m. kept blank. The mining proposal should be furnished as per the guidelines of IBM Manual on Appraisal of Mining Plan 2014.
 - (ii) The year wise, bench wise, section wise calculation along with ore to overburden ratio to be enclosed.
- 29) Page-24- para-c and para-7.2.3- Since the six months has already passed the production for first year should be calculated for remaining months of the financial year.
- 30) Page-24- para7.3 (iii)- Overburden should be calculated as per field observation and accordingly dumps should also be marked in the yearwise plan.
- 31) Page-25 para-7.4.(ii)- The Ob should be included in the calculation.
- 32) Page-26- table-2-The shovel and dumper rate of production is mismatching.
- 33) Page-26- para-7.19- The proposal for waste dumping site should be included.
- 34) Page-27- para-7.20,7.21 to 7.28- The above points should be rewritten based on the reserve calculation/ OB /Ts dumps etc.
- 35) Para 10.0: The stacking of top soil, mineral reject disposal are given as 'Nil' which is not correct as per the field inspection the top soil is around 1 to 2 m. Hence, the stacking of top soil should be furnished.
- 36) As per the guidelines 2.0 – Mining, details of dump re handling belongs to the same company or others.
- 37) Page-31 para-10 to 10.3- The table should be recalculated based on OB/TS and field observation.
- 38) Para 13.2: Organization chart may be furnished appointment of geologist and mining Engineer are to be furnished.
- 39) Para 14.0: The progressive mine closure plan should be furnished as per the existing guidelines.
- 40) Page-42 to 46- The table should be corrected based on earlier scrutiny comments.
- 41) Page-65- The table14.3.12 should be recalculated based on earlier scrutiny comments.
- 42) Para 14.3.13: The financial assurance should be submitted along with final copy
- 43) Any court cases pending related to the subject area and its status may be discussed in the text with undertaking.

Plates:

- 1) Plate II: The measurements given pillar to pillar are not matching with FMB Sketch enclosed in Annexure-III which is to be checked based on the scale. Accordingly, all the plans are to be corrected.
- 2) Plate-III- The bore hole plotted should be corrected based on the authenticated bore hole plan state DMG. The existing high tension power line pole Location should be marked in the plan and the safety distance has to be maintained as per the condition mentioned in the Letter of Intent.
- 3) Plate IV & IV A: The reserves should be recalculated.
- 4) Plate IV: Geological Plan: For the reserve calculations the strike influence taken for 111 category reserve estimation should be marked in the plan.
- 5) Plate IVA: The borehole locations are to be marked in the sections.
- 6) Plate-V & VA- The yearwise development and production plan should be redesigned based on reserve calculation and as advised during the field visit.
- 7) Plate V: The year wise proposals should be restricted to the reserves assessed under UNFC 111 and 122 areas only based on year wise development should be modified. (ii)Since it is "A" FM individual year wise proposal for the five year has to be furnished.
 - (iii) The location of store of topsoil during the plan period has not marked in the plan.
- 8) Plate VI: The pit positions and RL at the end of the five year has to be marked.
- 9) Plate- VI ,VII & VIIA- The mine pit and design should be redesigned based on scrutiny comments.
- 10) Plate VIII: Environmental Plan: The Environmental Plan existing features, ie.exisitng mining lease name, Dumps, village name, etc. are to be marked. Further, the wind direction also has to be marked.

Annexure-

- 1) Annexure-III- The lease sketch is not matching with the Surface plan.
- 2) Annexure-III: The applied lease area marked in the plan is not correct in survey number 217, the part of 1(b) and 7 are not in the applied lease area.
- 3) Annexure: Borehole PPM-4: This borehole PPM-4 chemical analysis report is not given.
- 4) All calculation should be given in excel in CD.
- 5) The Annexure should be separately numbered with different colour papers.
- 6) Authenticated bore hole map should be enclosed with identification number of bore hole clearly marked which is taken for reserve calculation.