

Table Scrutiny comment on the Draft Review of Mining Plan submitted in respect of Devapur Limestone Mine of M/s TSMDC over an extent of 210.00 Ha located in the Rally Reserve Forest, Devapur village, Kasipet Mandal, Mancherla District.

General

- 1) The Review of Mining Plan document is submitted for the ML area of 210 Ha for which provisional approval has already been accorded with certain conditions. Therefore submission of 798.26 Ha as ML area anywhere in the document will not be accepted and provisional approval may be revoked if not corrected.
- 2) Data/Informations/Annexures must be as per the IBM Manual on appraisal of Mining Plan-2014. Irrelevant annexures viz Annexure-14, 20 needs to be deleted.
- 3) The co-ordinates of boundary pillar R and S in the Plans are not matching with the same submitted in the lease sketch, text and of the plan in the earlier approved document. All plans and section must be corrected accordingly. You have submitted wrong information by plotting the boundary pillar co-ordinates incorrectly.
- 4) The Review of Mining Plan should be prepared as per IBM Manual on appraisal of Mining Plan-2014.
- 5) Consent of Nominated Owner in respect of qualified person needs to be submitted, in original.
- 6) List of Board of Directors as on 31.03.2020 duly signed by the company secretary needs to be submitted.
- 7) Address of the nominated owner alongwith his contact number and email Id needs to be furnished in the text.
- 8) Plan period to be submitted financial year-wise.
- 9) The updated toposheet numbers needs to be mentioned in the text at page 6.
- 10) Details of all the approved MP/SOM/MMP/RMP needs to be submitted in tabular form as given below:

Letter No.	Date of approval	Plan period	Proposal period	Area(Ha)	Rule under which approved
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- 11) Furnish details of last modifications indicating letter no, date of approval and reason for modification if any.

Review

- 12) Review needs to be submitted year wise for exploration. Year wise dump rehandling (for the purpose of recovery of mineral) and ROM production review needs to be submitted separately.
- 13) Reason for not carrying out the back filling at the proposed location in the year 2019-20 needs to be submitted in the review of back filling.
- 14) Reason for deviations in achievement wrt proposal needs to be submitted.
- 15) Point wise status of compliance of each violation pointed out needs to be submitted in text correctly.

Geology and Exploration

- 16) Under Part-A Chapter 1(c), mention the category of the deposit as per MEMC rules-2015.
- 17) Under Part-A Chapter 1(e) Details of prospecting/exploration already carried out needs to be furnished as per the items mentioned in the format issued in the IBM Manual on appraisal of Mining Plan-2014. In Table -10 furnish the information on Series Name of Bore holes. Form-I towards notice of sinking of bore holes to needs to be submitted complete in all respect. Summarized BH lithologs with average grade of all the drilled BHs, Bore hole details (BH ID, Easting, Northing, Collar Level, Depth, Inclination) of earlier drilled bore holes needs to be annexed.
- 18) Under Part-A Chapter 1(f), (g), (h) Submit the updated surface plan, Surface Geological Plan and Geological Section as per the rule 32(1)(a) and (b) of MCDR-2017. The Geological section drawn is not in consonance with the Geological plan and also the bore hole lithologs. Geological Cross Sections submitted are in variance with the ones submitted in the last approved Review of Mining Plan. Mineral reject zone needs to be marked in the geological section. Last approved Geological sections needs to be updated where ever new bore holes have been drilled. Additional Geological cross section needs to be prepared from boundary line connecting boundary pillars A & B to C & F for better understanding of repetition of limestone beds.

19) Under Part-A Chapter 1(j), Reserves and Resources as per UNFC with respect to the threshold value notified by IBM to be furnished. Extent of mineralized area and non-mineralized area along with area explored under different level of exploration needs to be furnished in the text, marked on the geological plan and UNFC code for area considered for different categories of reserve/resources estimation may also be marked on geological cross sections. In the Geological axis justification Sampling/sub-sampling and Assay data, laboratory tests details, resources blocked under different heads and for combined UNFC codification of the deposit needs to be submitted. In the feasibility axis justification under sub heading marketing, it needs to be mentioned that that limestone is being supplied to OCL Cement Plant on long term agreement basis. Same should be adopted in the entire document like page 32,65, 69.

Feasibility Study report needs to be submitted as per the items mentioned in the UNFC guidelines.

20) Under Part-A Chapter 1(k) Mineral reserves/resource estimation table needs to be submitted in the text.

21) Under Part-A Chapter 1(l) the Ultimate pit limit needs to be submitted correctly. Recovery factor has been considered as 100% where as in the last approved Review of Mining Plan 95% recovery was considered while estimating reserves/resources, reasons for enhancement in recovery needs to be submitted. Grade wise reserves/resources needs to be submitted. Justification needs to be submitted in respect of the resources blocked under different heads. Additional Mineral reserves/resources estimated needs to be furnished.

Mining

22) Submit the existing mining method of excavations with all design parameters.

23) Provide all blasting parameters along with blast hole geometry.

24) As the mineral reject is part of ROM, in table of year wise tentative excavations (Table-14) show mineral reject as part of ROM.

25) Complete spatial geometry along with co-ordinates and RLs of proposed year wise Mine development and dump handling needs to be mentioned in the text.

26) The bench wise weighted average grade of proposed mining block for each year needs to be furnished and the mechanism for the grade control for optimum utilization of

mineral along with blending techniques needs to be furnished. Bench parameters needs to be mentioned in the text.

- 27) In Conceptual plan heading information wrt UPL, life of the mine, conceptual exploration, pit dimension, land use pattern, status of reclamation and re-habilitation, land use, position of pit, mineral reject, subgrade, top soil, green belt development, exhausted/mined out pit etc. at the end of lease period. Five year block-wise proposal upto the end of lease period needs to be submitted. Five year block-wise Conceptual Mine Planning needs to be submitted also for 2025-26 to 2029-30. The land use pattern at the end of the lease period to be demarcated on the conceptual plan.

Stacking of mineral reject/sub-grade material and disposal of waste:

- 28) Details of existing OB dump, top soil mentioning location, co-ordinates, dimension, No. of terrace with height, volume needs to be submitted.
- 29) Balance Sub Grade Limestone dump details like location, area covered, tentative dimension, no of terraces, RL, balance quantity/volume needs to be submitted.
- 30) Submit Year-wise over burden generation and its utilization in tabular form.
- 31) Proposed year wise co-ordinates along with RLs needs to be mentioned in respect of proposed area for subgrade stacking, waste dumping, back filling.
- 32) Submit a part plan and section for backfilling proposal.
- 33) Back filling is done after extracting the ore upto Ultimate Pit. The area proposed does not come in to UPL. The proposal needs to be submitted as Plantation Proposal over non mineralised area instead of Back filling.

Processing of ROM and Mineral Reject

- 34) Detailed Flow Sheet of crusher needs to be annexed.
- 35) Qualification of technical persons to be submitted.

Progressive Mine Closure Plan

- 36) Proposal needs to be submitted for fencing along the ML boundary where mining will reach the Ultimate Pit Limit.
- 37) Details like Location, extent, no of plants, Co-ordinates of proposed year wise afforestation needs to be mentioned in the text.

- 38) Core and buffer zone location environmental monitoring needs to be proposed.
- 39) In the table provided for indicating the break-up of areas in the Mining Lease for calculation of Financial Assurance needs to be submitted as per the format issued in the IBM manual on appraisal of mining plan 2014.
- 40) Last two quarter environmental monitoring report needs to be annexed.
- 41) The proposed area for Mineral reject stack needs to be considered while calculating the Bank guarantee.
- 42) Bank guarantee needs to be submitted for the net area already under utilization and area proposed to be put to use for mining and allied activities having validity upto 31.03.2025.

Plans and Sections

- 43) Plans needs to be submitted in 1:2000 scale.
- 44) Ultimate Pit Limit needs to be demarcated in the Plans.
- 45) In the Year wise production and development plan demarcate the direction of movement of benches and mine haul road.
- 46) Environmental plan needs to be submitted in 1:5000 scale.
- 47) Conceptual plan is sketchy and requires demarcating the 5 year block wise all the proposals. Transverse and longitudinal section needs to be submitted at regular interval and to e submitted.
- 48) Area already put to use for mining pit as per the last approved RMP is 142.657 where as in this draft submission area put to use for mining pit is submitted as 119.881 Ha. Pls clarify.
- 49) In the Financial assurance plan area already put to use and proposed to be put to use for all type of uses needs to be demarcated clearly with different index.
- 50) All the plans and sections should be submitted as per the provision of rules 31, 32, 33 & 34 of MCDR, 2017.
