

SCRUTINY COMMENTS ON THE DRAFT REVIEW AND UPDATION OF MINING PLAN IN RESPECT OF DODDABYLADAKERE LIMESTONE MINE, OVER AN EXTENT OF 40.87 HA, SUBMITTED BY M/S THE RAMCO CEMENTS LIMITED, SITUATED IN DODDABYALADKERE, VILLAGE HOSADURGA TALUK CHITRADURGA DISTRICT OF KARNATAKA STATE

All the headings, subheadings should be replicated as per the standard guidelines as given in “*IBM Manual on Appraisal of Mining Plan 2014*”.

1. The execute Lease deed attached with the document is valid only till 24.08.2021. No supplementary/Executed lease deed for the period beyond 24.08.2021 in compliance to Sec 8A (5) of MMDR Act 1957 is submitted with the document. The same should be furnished.
2. The mine is non-working since 10.07.2017 as per the temporary discontinuance notice enclosed with the document. The supporting document to be furnished from the State Government, communicating the status of the Lease and that the Lease has not lapsed under Rule 20 of MCR 2016.
3. The name of the Company is changed from M/s Madras Cements Ltd. To M/s The Ramco Cements Limited. The existing lease deed enclosed with the document which is valid till 24.08.2021 is in the name of M/s Madras Cements Ltd”. The supporting document should be furnished that the change of name has been intimated to the State Govt. under Rule 61 of MCR 2016.

COVER PAGE

4. The name of the mine to be corrected as “**Doddabyladakere Limestone Mine**” in all relevant portion of text, table, annexures & plates. The initial date of grant of lease to be corrected as 19.08.1981 as per the enclosed lease deed. The Lease execution and the expiry period are not given correctly. The period of the Lease along with expiry date as per section 8A(5) of MMDR Act 1957 should be given and the supporting document should be enclosed as Annexure.
5. The Period of proposal should be corrected as “2021-22(From 25/08/2021) to 2025-26. The details (Name & address) of the Owner/Applicant to be also provided.

INTRODUCTION(Pg. 1-9)

6. It is mentioned in this Para(Pg.1) “valid up to 19.08.2001” which should be corrected as “18.08.2001”. The initial date of grant of lease is not mentioned correctly. It should be corrected as 19.08.1981 as per the enclosed lease deed. It has been observed that the executed lease deed attached with the document is valid only till 24-08-2021. No Supplementary /Executed lease deed for the period beyond 24.08.2021 in compliance to Sec. 8A(5) of MMDR Act 1957 has been submitted. The same should be submitted and the annexure reference to be given in this Para (Pg-2).
7. The supporting documents as mentioned above in scrutiny comment no 2 & 3 should be enclosed in annexure and reference to be given in this Para (Pg. No-2). The portion mentioning “The production of 0.4 LTPA Iron ore & 0.04 LTPA Manganese” should be deleted as the executed Lease deed is only for Limestone & dolomite.

1.0 GENERAL

8. i) The S.I. no should be corrected as per the mine plan universal format.
ii) Para 1.0(a)(Pg10)-The Para mentions “Mr. S.V.R.K Murthy Rao” with the address details as Authorized signatory but no Board Resolution nominating aforementioned have been enclosed. The latest copy of the resolution of Board of Directors nominating the Owner under the Mines Act 1952 /The Occupational safety, health and working conditions code 2020 and Mines and Minerals(development and Regulation) Act 1957 and rules made there in should be enclosed and details in this section should be given accordingly. The photo identity card of the nominated owner with permanent address proof should be added in the annexure and reference to be given in this Para. The Certificate/undertaking /Consents as enclosed in Part-B of the document should be signed by the nominated Owner only as per the latest Board resolution. The List of members of Board of Directors should also be enclosed and reference to be given in this Para.
9. Para 1.0(b) (Pg-10-11)- The copy of Memorandum of Association and Certificate of registration of the Company to be added in Annexure and references to be given in this Para.

2.0 LOCATION AND ACCESSIBILITY

10. i) The S.I. no should be corrected as per the mine plan universal format.
Para 2.0(a)(Pg. 12)- Lease details— i) No supplementary/executed lease deed for the period beyond 24.08.2021 have been submitted in compliance to Sec 8A(5) of MMDR Act 1957 as already mentioned in Scrutiny comment no 1. The same should be submitted and the Period/Expiry date mentioned in this Para should be corrected accordingly. The portion “ In accordance with the amendment.....would be extended for a further period of 10 more years from original grant.....” should be corrected accordingly.

ii)The Boundary pillar co-ordinates as mentioned in this Para should be given as per the DGPS lease sketch duly certified by the State Govt.

11. Para 2.0(b)(Pg. 14-15)- Toposheet No. With Latitude & longitude of all corner boundary pillars: -The Lease sketch enclosed as Plate no 2 with the document is not proper. The proper lease sketch having co-ordinates of all the boundary pillars in latitude and longitude (dd mm ss) in WGS-84 datum and duly certified by State Government should be attached as plate, and reference to be given in this Para. The same boundary pillars and mine lease sketch should be replicated in all other plan. The details of the boundary points/pillar and GCP's to be given in this Para accordingly. The Topo- sheet number mentioned in the Key plan, Plate no 1 is different from what is mentioned in this Para. The authentic Topo-sheet no should be mentioned in the Key plan and the details in this Para should be given accordingly.
12. Para 2.0(c)(Pg. 15)- A general Location map has not been prepared. The same should be prepared and enclosed in list of plates and reference to be given in this Para. Also, the DGPS lease sketch duly certified by the State govt. reference should be given in this Para.

DETAILS OF APPROVED MINING PLAN/SCHEME OF MINING (if any)

13. Para 3.3(Pg. 16-18)- *Production and development- Since the review of the proposals are done till 15.03.2021, The details related to the year 2021-22 should be deleted.The proposals to be reviewed accordingly for the year 2017-18 to 2020-21(till 15/03/2021) w.r.t the approved proposals and reasons for deviation if any should be given. Table no 3.2 should be corrected accordingly.

*Afforestation: - The afforestation proposals have not been reviewed correctly. The afforestation review should be given for the year 2017-18 to 2020-21(till 15.03.2021). The details given in this para for the year 2021-22 should be deleted. The Annual return submitted for the year 2019-20 mentions 300 nos. of plantation with 70 % survival rate, for the year 2017-18, 2250 nos. of plants with 70 % survival rate whereas in table no 3.4 it is mentioned ‘‘Nil’’. Authentic afforestation figures should be given in below mentioned tabular format as per the Annual Return submitted for the corresponding year and reasons for deviation if any should be mentioned.

Year	Proposed Area for Afforestation	Actual Area For afforestation	Proposed no Of trees to be planted	Actual no Of trees Planted	Proposed Survival rate	Actual survival Rate
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*Reclamation and Rehabilitation- The proposed vs. actual achievement for construction of Retaining wall and Garland drain should be given in below mentioned tabular format. The proposals to be reviewed accordingly for the year 2017-18 to 2020-21(till 15/03/2021) w.r.t the approved proposals and reasons for deviation if any should be given.

Year	Retaining wall in M(LXWXH)	Actual achievement Of Retaining Wall in M(LXWXH)	Proposed Location of Retaining Wall	Actual Location Of Retaining Wall	Garland drain in M(LXWXH)	Actual achievement Of Garland drain in M(LXWXH)	Proposed Location of Garland Drain	Actual Location of Garland Drain
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14. Para 3.4-Give status of compliance of violations pointed out by IBM (Pg.17)- The details of the violations pointed out by IBM and its compliance thereof for the last 5year periodshould be given in tabular format as mentioned below. Violation was pointed out by IBM vide letter no KNT/CTD/Lst-19/BNG/2476 dated 26/12/2017. The details of the same should be given.

Year	IBM violation details	Compliance details
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The letter no details with date to be added only in the respective column year-wise and the relevant violation and compliance letters to be added in Annexure and reference to be given respectively. The portion ‘‘ no violations are pointed out during the approved review & modification plan period’’ should be deleted.

15. Para 3.5(Pg. 18-19)- It should be mentioned ‘‘NIL’’ if no suspension/closure/prohibitory order issued by any Government agency under any rule or Court of law.

PART-A (1.0 GEOLOGY AND EXPLORATION

16. All the headings & subheadings in this chapter should be replicated as per the mine plan universal format.
17. Para 1.0(e)(Pg. 24-26): Details of Prospecting/exploration carried out-

i) Number of boreholes indicating type (Core/RC/DTH), diameter, spacing, inclination, collar level, depth etc with standard borehole logs duly marked on geological plan/sections- The details of the complete 14 nos. of boreholes drilled during 1st and 2nd phase for the period 2000-01 & 2013-14 to be given as per the below mentioned tabular format. The co-ordinates of the drilled borehole should be given under ‘Location’ column. Table in this Para should be corrected accordingly.

Sl. No	Bore hole No	Type (Core/D TH)	Diameter	Inclination	Co-ordinates (Northing, Easting)	Collar Level	Depth	Date of starting	Date of Ending.
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All the aforementioned boreholes should be demarcated with distinct colour on the geological plan & sections and reference to be given in this Para. The Lithology and chemical analysis details for complete 14 boreholes should be attached and each borehole details should be signed by Geologist as per the Form-J format of MCDR 2017.

iii) Details of samples analysis indicating type of sample (surface/sub-surface from pits/trenches/borehole etc.)- The chemical analysis report for all the drilled exploratory boreholes for entire strata for all radicals from NABL accredited Laboratory should be furnished in the annexure and reference to be given in this Para.

18. Para 1.0(f)(Pg.27)-As already mentioned above in scrutiny comment no 11, all the boundary pillars position and co-ordinates should be as per the lease sketch duly certified by the State Government. As per Rule 31(4) of MCDR 2017 ‘the plans and sections required under these rules shall be maintained up to date within three months in case of category ‘A’ mines as referred to in clause (a) of sub-rule (2) of rule 55. Accordingly, the surface plan to be updated and to be prepared as per the latest survey. All the features to be incorporated in surface plan as per Rule 32(1)(a) of MCDR 2017. The 7.5 m safety zone should be demarcated accordingly all along the ML area. The other safety zone for Nala/Road/Villages/Electric power line etc. if any inside the ML area as per the statutory norms should also be demarcated along with the details of the safety zone, in the index. It should be ensured that no mining or allied activities are proposed within these safety zones. All the surface features, ML boundary pillars co-ordinates, Ground control points etc. should be given as per the lease sketch duly certified by the State Govt. The surface plan (Plate no 3) should be modified/corrected accordingly.

19. Para 1.0(g) (Pg.27-28)-The Geological plan also needs to be updated as per the latest survey as already mentioned above in Scrutiny comment no.18. The corrections as mentioned in aforementioned scrutiny comment no 18 should also be incorporated in the Geological plan. All the features to be incorporated in geological plan as per Rule 32(1)(b) of MCDR 2017. The area under different exploration limits G1, G2, G3, G4 as per UNFC should be clearly demarcated on the Geological plan and also to be added in Tabular format in plate. All the surface features to be replicated in the Geological plan as per the surface plan. All the above features should be shown on the plate index. The UPL (Ultimate pit Limit) demarcation to be done distinctly. Plate no 04 should be corrected accordingly

20. Para 1.0(h)(Pg. 28)-The Geological section (Plate no 5) have not been prepared correctly.

*The logs of already drilled boreholes have not been shown in the sections.

* In Section B-B’, Borehole no DBK-26, vertical borehole with 104 m depth have not been shown accordingly.

*In section C-C’ the Reserve have been shown in ‘111’ UNFC category beyond the depth of the borehole for borehole no DBK-14, DBK-15 & DBK-20.

*In Sec D-D’, DBK-8 is inclined borehole (55⁰) with depth of 26 metres and having Lithology as BHQ as per the log sheet attached where as in the section it is shown vertical borehole with lithology as dolomitic limestone.

*In Sec E-E’, Borehole DBK-18 mentions lithology as soil & BHQ whereas in the plate it is shown dolomitic limestone.

The Geological section should be specifically prepared w.r.t to the borehole logs for the drilled exploratory boreholes. For G-1 stages of exploration the depth continuity of mineralization may be considered limited to the depth up to which direct evidence of mineralization is established and lateral extension to be considered for Resource assessment in any case shall not be more than 50 % of the grid spacing of the probe points in accordance with Minerals (Evidence of Mineral Contents) Rules, 2015. The sections should distinctly show the ML Boundary, 7.5 m safety zone from ML Boundary, Safety Barrier for Nala/Road/Village/Power line if any, UPL (Ultimate pit limit), current pit profile (as per the latest survey) Boreholes as per lithology etc. The corrections to be incorporated in plate no 5 accordingly and as per the discussion during site inspection.

21. Para 1.0(i) (Pg. 28-29)- The exploration program should be proposed in the current plan period so that G-1 level of detailed exploration for the entire potentially mineralized area is completed in the plan period in accordance

with Rule 12(4) of MCDR 2017. The area under G-1, G-2 & G-3 should be calculated properly. Accordingly, the exploration program should be proposed in the current plan period so that G-1 level of detailed exploration for the entire potentially mineralized area is completed in this Plan period. Additionally, as discussed during site visit since the lithology of the lease area also shows Float iron ore, Manganese ore & Siliceous iron ore accordingly exploration should be proposed as per the Minerals (evidence of Mineral contents) Rules 2015 under G-1 category for these minerals so that Reserve/Resource assessment can be done in the upcoming plan period. for iron ore & manganese also inside the lease area. The future exploration program should be proposed in details accordingly as per the below mentioned table. Also as discussed during site visit additional exploratory boreholes at greater depth to be proposed along section A-A', B-B' & C-C' to check the continuity of the limestone at depth since the current boreholes along these sections shows, the ore body has not been discontinued and the continuity persist at depth. The depth of exploration should be up to the discontinuance of the ore body. All the corrections in this Para and the related plates should be incorporated accordingly as mentioned above and detailed discussion during site visit.

Year	No of boreholes (Core/RC/DTH)	Grid interval	Total meterage	No of pits, Dimensions And volume	No of Trenches, Dimensions and Volume.
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Location of the proposed boreholes

Proposed Year	Proposed bore-hole(BH-ID)	Type (Core/RC/DTH)	Proposed Depth(m)	Sections	Northing	Easting
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22. Para 1.0 (j) (Pg. 29-32): The S.I. no of this Para should be corrected as per the universal format. The Reserve & Resources were 3.22 million tonnes as per the last approved document. Since no exploration is done during the ongoing plan period and also the mine is non-working during the entire plan period, the enhancement of Reserve/Resource quantity to 9 million tonnes as given in Table no 1.6 in this para is not acceptable. The Reserve/Resource figure should be as per the last approved document and it should be mentioned in this Para ‘ ‘ The threshold value for Limestone vide. IBM notification no C-284/3/CMG/2017 dated 25.4.2018 is Cao-34 % (Min) & Mgo-5% (Max) and the Reserve & Resource estimation has been done as per the threshold value notified by IBM. Also, the area explored under different level of exploration should be marked on geological plan and UNFC code for the area considered for different categories of reserve/resources estimation should be marked on geological cross sections. The details should be given in tabular format in this Para as mentioned below.

G-Axis	Area in Ha	Depth in Meter
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ii) The text and the figures given in Table No.1.6 should be corrected w.r.t the aforementioned scrutiny comment and as per the detailed discussion during site visit and corrections to be incorporated in all relevant portion of text, tables, annexures (Annexure-XIII) and plates.

iii) The feasibility report attached with the document is not proper. The Reserve & Resource has been mentioned as on 30.09.2016. The entire feasibility report as attached in Annexure-XIV should be corrected w.r.t to the aforementioned scrutiny comments for Reserve/Resource estimation. The economic evaluation has not been carried out properly. Detailed Economic Evaluation should be done. Proper feasibility report should be prepared as per the Minerals (Evidence of Minerals Contents) Rules 2015. UNFC format. The report should include Geographical conditions, Geology, Legal matters, operations, Environment, Processing, Infrastructure and services construction activities, Costing, Marketing, Economic viability and other factors like statutory provisions related to labour, land, mining etc. There is no detailed costing and Economic evaluation done. Detailed Economic Evaluation should be done. Costing should also include Royalty & taxes (DMF, NMET) etc. The detailed analysis based upon the NPV; Internal Rate of Return cash-flow needs to be done for economic viability. The feasibility report should be prepared accordingly and should be enclosed as annexure and reference to be given in this Para. The feasibility report should be signed by QP.

23. Para 1.0 (k): (Pg.32-34) Furnish detailed calculation of reserves/resources section wise - The S.I. no of this para should be corrected as per the universal format. As already mentioned above in scrutiny comment no 22 and discussed during site visit, the Reserve/Resource quantity should be as per the last approved document. The text, annexures (Annexure XIII & XV) in this para should be corrected accordingly and as per the detailed discussion during site visit. The details of the threshold value, Bulk density (T/cum) for limestone, Bulk density (T/cum) for waste etc. should be specifically mentioned. The text, tables and related plates of this Para should be corrected

accordingly. The Bulk density lab test report from NABL accredited lab may be attached as annexure and reference to be given in this Para.

24. Para 1.0 (l)(Pg32-34)-Mineral Reserves/Resources: All corrections as mentioned in aforementioned scrutiny comments should be incorporated. It is to be specifically mentioned in this Para the mineral Resource estimation is based on the level of exploration and as per the threshold value of limestone declared by IBM.(CaO-34% Min, MgO-5% Max). Table no 1.7 should be corrected as per the above-mentioned scrutiny comment no 22 & 23 and details to be given as per the below mentioned tabular format.It should be mentioned in this para“**Mineral resources estimation as on 15/03/2021**”.

Level of Exploration	Resources in million tonnes	Grade
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Reserve/Resource details should be re-examined thoroughly w.r.t all the scrutiny comments for Geology and Exploration chapter(1.0) and should be given accordingly as per the mine plan universal format.

	UNFC Code	Quantity in million tonnes	Grade
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- ii) The text, tables(Table No 1.8 & 1.9) in this Para and all the related plates should be corrected as per the aforementioned scrutiny comments for Geology and Exploration chapter(1.0) and as per the detailed discussion during site visit.

2.0 MINING

25. All the headings & subheadings in this chapter should be replicated as per the mine plan universal format.
26. Para 2.0(a) (Pg. 36-38)- In table no 2.2. the extent (Co-ordinates) of the pit to be also given & the maximum depth column to be corrected as Bottom mRL. In Table no 2.3 the unit for the waste quantity mentioned should be given.The waste dump details in table no 2.3 should be corrected as discussed during site visit& the chemical analysis reports for the waste dumps, as mentioned in table no 2.3 from NABL accredited laboratory to be enclosed. The Mineral stock no MD-1 mentioned in Table no 2.4 is not demarcated on the Surface plan. This should be checked & corrected. All the mining features as mentioned in this Para should be demarcated on the surface plan.
27. Para 2.0(b)(Pg-40-42)- *Indicate year-wise tentative excavation in Cubic metres indicating development, ROM, pit wise as in table below-*

i)For the year 2021-22 it should be specifically mentioned “from 25.08.2021” and the ROM production should be given proportionate to the remaining 7 months only (25.08.2021 to 31.03.2021). The last approved document mentions ROM production quantity of 51300 tons for the period 2020-21(till 24.08.2021). It should be checked that the overall ROM production quantity for the last approved document and the proposed production in the upcoming plan period for the year 2020-21(from 25.08.2021 should be within the EC limit(1 LTPA).

ii)The Waste quantity under OB/SB/IB column, Ore and Mineral Reject quantity in ROM and the ROM/Waste ratio have not been given correctly as per the calculations in the year-wise production and development sheet enclosed as Annexure-XVI in table no 2.5 & 2.6. The ROM ore quantity, usable ore quantity & Ore to waste ratio as given in Table no 2.7 also are not correct. As discussed during site visit, the total excavation quantity should be categorized under Topsoil, OB/SB/IB (High Magnesia Limestone) & ROM(Limestone).The corrections to be incorporated as mentioned above and detailed during site visit in all relevant portion of text, table, annexures and plates.Also the total data in“Pit no” column of table no 2.5 has not been furnished correctly. In Table No 2.6 the Ore & Mineral reject units in ROM Heading to be corrected from “Cum” to “tonnes”.

I. In-situ Tentative Excavation

In-situ Tentative Excavation by Volume

Year	Pit no	Total tentative excavation(Cum)	Top Soil (Cum)	OB/SB/IB (Cum) (High Magnesia Limestone)	ROM(cum)		Mineral Reject (cum)	Rom/Waste Ratio (by Volm)
					ore(Cum)	Mineral Reject (cum)		
1	2	(3=4+5+6+7)	4	5	6	7	8	9

Insitu Tentative Excavation by Tonnage

Year	Pit no	Total tentative excavation (Tonnes)	Top Soil (Tonnes)	OB/SB/IB (Tonnes)(High Magnesia Limestone)	ROM (tonnes)		Mineral Reject (Tonnes)	Rom/Waste Ratio (by Tonnes)
					ore (Tonnes)	Mineral Reject (Tonnes)		
1	2	(3=4+5+6+7)	4	5	6	7	8	9

iii)The bulk density for ore, OB/SB/IB(High magnesia limestone), Top soil etc. to be mentioned specifically in this Para. and the related Lab test from NABL accredited laboratory may be attached as annexure and reference to be given.

iv)The recovery factor considered for ROM should be mentioned. The rock/mineral constituent and grade details of the High magnesia Limestone taken as OB/SB/IB should be specifically mentioned in this para and supporting chemical analysis data from NABL accredited laboratory should be attached as annexure and reference to be given in this Para.

v)The individual year-wise sectional calculation for the proposed excavation (2021-22(from 25.08.2021 to 2025-26) should be specifically worked out for total excavation, Top soil, OB/SB/IB (High magnesia Limestone) and ROM(Limestone). The production and development figures as given in aforementioned tables (Table no 2.5,2.6 & 2.7) and the year-wise sectional calculation should be exactly same. Annexure-XVI is not proper and should be corrected accordingly for individual year production and development calculation year-wise.

vi)All the above-mentioned corrections, and as discussed in detail during site visit to be incorporated in text & Table no 2.5, 2.6,2.7 of this Para and Annexure-XVI enclosed.

28. Para 2.0(c)(Pg. 42-43) Enclose Individual year wise development plans-The S.l. no of this para should be corrected as per the universal format.

i)The portion ‘*Year wise production & Development plans for the year 2021-22 to 2025-26.....*’ should be corrected as ‘**Year wise production & Development plans for the year 2021-22(from 25.08.2021) to 2025-26....**’.

ii)Individual year separate development plan and sections showing pit layouts, dumps, stack of mineral reject if any, connecting Ramp to the working pit, haul roads inside the mine to pit & waste dump etc. to be given for five years. The plates 6A to 6E reference of which is given in this Para is to be corrected accordingly. All corrections to be incorporated w.r.t the aforementioned comments of Geology& Exploration (1.0) and Mining chapter (2.0).

ii) All the mining and allied activities should be proposed within the ML area as per the statutory norms. No mining or allied activities should be proposed in 7.5 m safety zone except greenbelt plantation.

iii)The lithology as given in the geological plan should also be given in all the production & Development plans. No lithology is required to be shown in 7.5 m safety zone all along the lease area.

iv) The Mine development & waste dump details for the Year 2021-22(from 25.08.2021),2022-23,2023-24,2024-25,2025-26 should be given in tabular format in plates also.

v)The environmental protective work proposed year wise should also be given in tabular format in plates.

vi) The year-wise pit positions should be demarcated clearly in production & development plans (Plate 6A to 6E) and also all corrections to be incorporated as mentioned above. Also, Individual corresponding year-wise section should be prepared and enclosed as plates and reference to be given here.

vii)The corrections to be incorporated in all relevant portion of text, table, Annexure and plates (6A-6E).

29. Para 2.0(d)(Pg. 43-44) Describe briefly giving salient features of the proposed method of working indicating category of mine: -The S.l. no of this para should be corrected as per the universal format.

i) The portion ‘*The topsoil is used for afforestation and storage in the 7.5 m buffer zone all along the lease boundary*’ should be corrected as ‘*The top soil generated will be used concurrently for plantation in the 7.5 m safety zone all along the lease boundary and at the side of haul roads inside the mining lease for plantation*’ as communicated by the lessee representative during site visit.The portion ‘*Buffer stocks/Dynamic stocks of limestone and blendable limestone (shaley limestone) are maintained at designated locations*’ should be corrected as ‘*Buffer stock/Dynamic stocks of limestone are maintained at designated location*’

ii) As already mentioned above in scrutiny comment no 28, the Roads and Ramps should be demarcated clearly on all the related plans.

- iii) The lime stone quantity mentioned as ‘‘221,527 tons should be corrected as per the above scrutiny comment no 27 & 28. It is mentioned ‘‘...at the end of each year from Dec2021-22 to 2025-26.....’’ which should be corrected as ‘‘.....at the end of each year from 2021-22(from 25.08.2021) to 2025-26.
- iv) Individual year wise production and development sections to be also prepared separately as mentioned above in scrutiny comment no 28 & reference in this para to be corrected accordingly.
- v) The design parameters (Height, width, bench slope angle etc.) of working bench proposed should be mentioned. The proper bench operational parameters as per the slope stability report & 106 (2) (b) permission from DGMS as per MMR 1961 should be proposed. The relevant Slope stability report & 106(2) (b) permission of the mines may be attached as Annexure and reference to be given in this Para.
- vi) The detailed back up calculation to be given for requirement of no. of drills, excavators, loaders etc. based on the maximum annual quantity to be handled including ROM, OB & Topsoil. The blasting parameters like charge per hole, charge per delay, maximum no of holes to be blasted per round, manner and sequence of firing, type of explosives & accessories to be used, Explosive requirement annually and other related parameters to be calculated in detail and to be mentioned in the text. The calculation as given in Pg-54-56 under Extent of mechanization should be given in this Para. The total ROM, OB & topsoil quantity to be handled per annum is to be corrected as per the above-mentioned scrutiny comment no 27 & 28 and corrections in calculations of this para to be done accordingly.
- vii) The summary of the total mining equipment requirement based on the maximum production for the plan period should be given in tabular format in this Para. The existing equipment available and the adequacy of the existing equipment to handle the required quantity and requirement of additional equipment if any in this plan period should also be justified along with calculation.

30. Para 2.0(e) (Pg. 44-48) Describe briefly the layout of mine workings. - The S.I. no should be corrected as per the universal format.

i) The Mine development & waste dump details for Year 2021-22(from 25.08.2021), 2022-23, 2023-24, 2024-25, 2025-26 should be specifically given as per the below mentioned format.

Mine Development details

Year	Pit No	Area in (Ha)	Section	No of Benches	Level MRL.	Location Co-ordinates	
						Northing	Easting
					Top		
					Bottom		

OB/SB/IB-Dump details

Year	Dump No.	Area in (Ha)	Location		Reduced level in meters		Sections
			Northing	Easting	Bottom	Top	

Table no 2.8 to be corrected accordingly. In table no 2.9 the top & bottom MRL & section are not given. The same should be given. As already mentioned above in scrutiny comment no 29 it is to be mentioned that the top soil generated will be used concurrently for plantation in the 7.5 m safety zone all along the lease boundary and at the side of haul roads inside the mining lease for plantation. Accordingly, Soil dump details are not required and table no 2.10 to be removed from this Para.

ii) The production and development calculation sheet annexure reference to be corrected and also corrections in the text, table of this Para and Annexure-XVI should be incorporated as mentioned above in scrutiny comment no 27, 28 & 29.

(iii) The layout of mine workings, Pit road layout for approach to mine workings & waste dump, layout of Ramps inside the proposed working faces, the layout of faces, site for disposal of overburden/waste along with ground preparation prior to disposal of waste year-wise for the plan period, should be discussed in this Para for individual year. **The waste dump proposed should be specifically as per the specific conditions(A) of EC. The maximum height of the waste dump should not exceed 30 m having 3 terraces of 10 m each and the overall slope of the dump shall not exceed 27 degrees.** All the aforementioned should be clearly demarcated and indexed on the Year-wise Production & development plan and sections.

iv)The Ultimate pit limit to be specifically demarcated on the Geological, production and development and other related plates. As communicated during site visit it is found that portion of waste dump proposed is within UPL which should be corrected. **No portion of the waste dump is to be proposed within the UPL.** The corrections to be incorporated in all relevant portion of text, table, annexures and plates.

iv)Mine development and production plan for individual year as given in Annexure-XVI should be reexamined w.r.t. the aforementioned scrutiny comments for Geology(1.0) & Mining(2.0) chapter and corrections to be incorporated. The reference of this annexure should also be given in this Para.

31. Para 2.0(f) (Pg. 50-53) Conceptual Mine Planning up to the end of the Lease period:

i)Mineable Reserves and anticipated life of the mine- Life of the mine should be recalculated w.r.t the aforementioned scrutiny comments of Geology (1.0) and Mining (2.0) chapter and corrections to be incorporated in this para.

ii) Excavation- Considering the current exploration data and geology, pit layout is to be designed for conceptual period. The details of mining excavation during this plan period& conceptual period to be given. The plate references for individual year proposed excavation &final excavation as per conceptual planshould be given. Accordingly, details of the final pit limit designed on basis of ultimate pit slope and ultimate pit Limit (UPL) are to be given as per the table below.

Area(ha)	Pit dimension			
	Length(m)	Width(m)	Depth(m)	Ultimate pit Limit in mRL.

The Conceptual plan and section should be prepared separately after incorporating all the aforementioned corrections and reference to be given in this Para.

iv)''Disposal of Waste''- The corresponding waste and soil generation should be specifically mentioned for the estimated limestone reserves as per the comments mentioned above in Geology & Exploration chapter (1.0) & Mining chapter (2.0). The corrections to be incorporated in all relevant portion of text, table, annexures and plates. The portion ''.... *whereas the soil will be stored in 2.67 ha green belt area and will be used for afforestation.*'' should be corrected as ''....whereas the soil generated will be concurrently used for plantation in 2.67 ha green belt area and at the side of haul roads inside the mining lease for plantation .''. **The backfilling cannot be proposed in Pit-1 as the mineral still persist till depth as per the current exploration data.** Further in this plan period as already mentioned above in scrutiny comment no 21, the continuity of the limestone will be assessed at further depth. The OB disposal till conceptual period should be as per the as per specific conditions(A) of EC which mentions,the maximum height of dump should not exceed 30 m having 3 terraces of 10 m each. The overall slope of the dump shall not exceed 27 degrees. The text, table and related plates in this Para should be corrected accordingly.

v) ''Backfilling of voids''- As already mentioned above and discussed during site visit, since the mineral still persist at depth, the backfilling in Pit no 1 cannot be proposed at conceptual stage.The Conceptual plan & section(Plate no 8 & 9) and the text in this para should be corrected accordingly.

vi) Reclamation & Rehabilitation–i) The area under safety zone should be re-examined and calculated w.r.t the aforementioned scrutiny comment no. 18. The entire safety zone area, waste dump area etc should be reclaimed by afforestation during the conceptual period.The text, table, annexures and related plates should be corrected accordingly.The conceptual plan & section should also include undertaking of re-grassing of the mining area and any other area which may have been disturbed due to mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. in accordance with the order of Hon'ble Supreme Court dated 08.01.2020.The complete details of afforestation as mentioned above should be given for the entire conceptual period in below mentioned tabular format. The text in this Para and table no 2.13 to be corrected accordingly. It is mentioned as ''...Environment management plan enclosed vide Plate no 10'' which should be corrected as ''...Reclamation plan enclosed vide plate no 12''.

Plan Period	Area	Location for Afforestation	No of trees	Species for plantation	Remarks
2021-22(from 25.08.2021) to 2025-26					
20XX-XX to 20XX-XX					

vii) Table no 21-The Land use pattern for mining and allied mining activities during this plan period as well as during the conceptual period should be given as per the below-mentioned table. Table no 2.14 should be corrected as per the below mentioned format. The items under ‘‘particular’’ column should be similar as in financial assurance table of the mine plan universal format. The table should also be checked as per the latest survey data as mentioned above in scrutiny comment no 18. Also as discussed during site visit since the mine is non-working in the entire ongoing plan period, there should not be change in the existing land use w.r.t the last approved document except Green belt area. This should be checked and corrections to be incorporated accordingly in text, table no 2.14 & related plates.

Sl. No	Particulars	Existing (ha) as on XX/XX/2021	Plan period(ha)	Conceptual Period(ha)
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viii) The Conceptual plan & section (Plate no 8 & 9) should be corrected incorporating all the above scrutiny comments. The plate should demarcate the land use pattern clearly for the conceptual period along with index and also having the aforementioned land use details in tabular format.

ix) The portion ‘‘Describe briefly with calculation.....stope hauling, hoisting to surface, surface transportation and any other operation’’ and details given under this should be deleted (Pg.- 54-60). The details under this heading should be included in Para 2.0(d) under extent of mechanization as already- mentioned above in scrutiny comment no 29(vi) & (vii).

3.0 MINE DRAINAGE

32. Para 3.0(a, b, c & d)- (Pg. 61-63) – The maximum and minimum depth of working should be checked w.r.t the above scrutiny comment for Mining Chapter(2.0) and corrections to be incorporated accordingly in text and table of all these Paras.**As per the specific conditions(A) of EC, the mining operations shall not intersect ground water table.**Accordingly,it shall be ensured that no portion of the proposed working for the plan period intersect water table. This should be specifically justified with maximum depth of working proposed in the plan period for Pit no 1 and the minimum depth of water table. The top most RL, bottom most RL and depth of working for the plan period (2021-22(from 25.08.2021),2022-23,2023-24 & 2025-26) to be given correctly in the table.

4.0 STACKING OF MINERAL REJECT/SUB GRADE MATERIAL AND DISPOSAL OF WASTE

33. Para 4.0 (a) (Pg. 64):- i) The Quantity(volume) of top soil, OB/Waste & Mineral Reject should be rechecked with respect to the aforementioned scrutiny comment for Mining Chapter (2.0) and as per the discussion during site visit.Table no 4.1 in this Para should be corrected as per the below mentioned format. The details to be given for the plan period 2021-22(25.08.2021) to 2025-26.

Year	Top Soil (Cum)		Overburden/Waste(cum)		Mineral Rejects (Cum)		
	Reuse/spreading	Storage	Backfilling	Storage	Blending	Storage	Beneficiation

The rock/mineral constituent and grade details of the High magnesia Limestone considered as OB/Waste should be specifically mentioned and supporting chemical analysis data from NABL accredited laboratory should be attached as annexure and reference to be given in this Para. Also as communicated during site inspection by the Lessee representative it should be specifically mentioned in this Para that the top soil generated will be used concurrently for plantation.

34. Para 4.0(b) (Pg. 65-66): It is to be also mentioned in this Para whether the proposed dumping ground for the plan period is within/outside UPL with technical constraint & justification.The borehole log and chemical analysis details should be enclosed to justify that the proposed dumping ground is devoid of any mineral. If there are no boreholes log and chemical analysis details available for the proposed dumping ground than it should be

undertaken and mentioned in this Para, that the proposed waste dump is temporary and the entire dump will be re-handled in future to the non-mineralized area if any mineralization is found in the proposed exploratory drilling of this plan period. The text in this Para to be corrected accordingly. Since the soil will be concurrently used for plantation table no 4.2-Soil dump details to be deleted. Table no 4.3 & the details given below in the text in this Para, is not related to this Para and should be deleted. It should be included in Para 4.0(c).

35. Para 4.0 (c)Pg-66-67)- i) As already mentioned in above scrutiny comment no 30, the waste dumping should be proposed as per specific conditions(A) of EC. The year-wise waste dumping details should be given in this Para accordingly. As already mentioned in scrutiny comment no 31 (iii) as per the EC conditions, the maximum height of dump should not exceed 30 m having 3 terraces of 10 m each. The overall slope of the dump shall not exceed 27 degrees. The OB disposal for the plan period and conceptual period should be specifically as per the EC conditions. The corrections to be incorporated in this Para and all related table and plates accordingly. The OB quantity, location etc. should be as per the year-wise production and development calculation as given in Annexure-XVI after incorporating all corrections as mentioned in the mining chapter(2.0). The OB dump details for the plan period year-wise should be given as per the below mentioned tabular format. Also, the waste dump location for the plan period should be checked w.r.t the aforementioned scrutiny-comment no 30(iv) and corrections to be incorporated in all relevant portion of text, tables, annexures & plates. The OB/waste dump details for the plan period year-wise should be given as per the below mentioned tabular format.

OB/Waste dump details

Year	OB/Waste Dump ID	OB Soil Quantity Proposed	Area in Ha	No. of Stages	Level in MSL, Top RL & Bottom RL	Location Coordinates	Slope Angle
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ii) Environment protective measures like construction of Retaining wall, garland drains, silt settling tanks, Check dams etc. requirement should be reviewed for the plan period as discussed during site inspection and may be proposed for the plan period as per the below mentioned tabular format. Retaining wall and garland drain to be proposed all along the existing and the proposed dump.

Year	Retaining Wall		Garland drain		Remarks
	Dimension (LXWXH)	Location (Co-ordinates)	Dimension (LXWXH)	Location (Co-ordinates)	

Year	Silt Settling tanks		Check dams		Remarks
	Dimension (LXWXH)	Location (Co-ordinates)	Dimension (LXWXH)	Location (Co-ordinates)	

6.0- PROCESSING OF ROM AND MINERAL REJECT

36. Para 6.0(g)(Pg. 70-71)- The S.I. no of subheadings should be corrected as per the universal format. The quantity of water required in Cum/day for mining & allied activities process like dust suppression, drilling, plantation, domestic purpose like washing, drinking etc. details to be given as per the tabular format mentioned. The details regarding source of supply of water, disposal of water and extent of recycling along with water balance chart should be given in this Para.

Item	Water Requirement (in Cum/day)
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7.0 OTHER

37. Para 7.0-(a)(Pg.-72) Site services- All the mentioned site services should be clearly demarcated on all the relevant plan and indexed.

(b) Employment Potential-Full time Geologist and Mining Engineer employment is required in Category-A mines in accordance with Rule 55 of MCDR 2017. The details of the Manager, Geologist, Mining Engineer, Electrical, Mechanical, Mining Foreman, Mate and other manpower under highly skilled, skilled, semi-skilled etc should be briefed in this Para. Also, the no of High Skilled, Skilled, Semi-skilled and Un-skilled manpowers should be reviewed w.r.t all the above-mentioned scrutiny comments related to mining chapter (2.0) and modifications/corrections to be incorporated.

8.0 PROGRESSIVE MINE CLOSURE PLAN

38. Para 8.1(Pg. 74-80): The details should be given as per the below mentioned tabular format incorporating all corrections as mentioned above in scrutiny comment no 31(vii) and as discussed during site inspection. Table no 31 should be modified & corrected accordingly. The items under particular column should be similar as in financial assurance table of the mine plan universal format.

S.I. No.	Particulars	Area put on use at start of plan (Present land use) in Ha
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39. Para 8.2(Pg. 80-89): The plan period to be corrected from 2021-22(from 25.08.2021) to 2025-26.

i) The land use details in this Para should be specifically given as per the below-mentioned tabular format and as mentioned above in scrutiny no 38. This should be recalculated w.r.t the aforementioned scrutiny comments for Geology & Exploration chapter (1.0), Mining Chapter (2.0), Disposal of Waste Chapter (4.0) & PMCP chapter (8.0). The items under ‘‘particular’’ column should be similar as in financial assurance table of the mine plan universal format. Table No 8.5 land use details should be given as per the below mentioned format. All corrections to be incorporated in the text and table of this Para.

ii) The land use details in this Para should be specifically given as per the below-mentioned tabular format.

Land use in Hectares				
S.L No.	Particulars	Area put on use at start of Plan period (Present Land use)(in Ha) as on _____	Additional requirement during plan period(in Ha)	Total(in Ha)

iii) Air Quality- The details of all the Air monitoring stations to be given as per the below-mentioned format. The reference of the Environmental Management plate should be given which would be showing the mentioned Air monitoring stations.

S.I. no.	Location	Zone	Code
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iii) Water Quality: The details of the water monitoring stations should be given as per the below mentioned tabular format. The reference of the Environmental Management plate should be given which would be showing the mentioned water quality monitoring stations.

S.I. no.	Location	Code
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iv) Noise levels: The details of noise monitoring stations should be given as per the below mentioned format. The reference of the Environmental Management plate should be given which would be showing the mentioned noise monitoring stations.

S.I. no.	Location	Code
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40. Para 8.3.1(Pg.89-91)- The year wise environmental protective work such as Retaining wall, garland drain, check dam, silt settling tank, afforestation etc. for dump management & Green belt/safety zone plantation etc. should be proposed as per the discussion during site inspection. Details should be given as per the below mentioned table. The Green belt plantation should also be proposed in safety zone, in the western and northern portion of the ML area between boundary pillar 3,2 & 1 as discussed during site inspection.

Proposal for environmental protective measures for plan period (2021-22(from 25.08.2021) to 2025-26)

Year	Retaining Wall		Garland drain		Remarks
	Dimension (LXWXH)	Location (Co-ordinates)	Dimension (LXWXH)	Location (Co-ordinates)	

Year	Safety bund		Silt settling tank		Remarks
	Dimension (LXWXH)	Location (Co-ordinates)	Dimension (LXWXH)	Location (Co-ordinates)	

Proposal for plantation for plan period

Year	Location	Area in Ha	No of Saplings	Survival rate	Remarks
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The proposals should be supported with yearly plans & sections depicting yearly progress in the activities for land restoration/reclamation/rehabilitation, afforestation etc. in the Reclamation plan. All the aforementioned details should also be incorporated in the Reclamation plate and the reference of the plate to be given. The text in this Para and tables 8.11 & 8.12 should be corrected accordingly.

41. Para 8.3.2-Topsoil Management (Pg-91): -The quantity of topsoil generation should be recalculated as already mentioned in scrutiny comment no 27. The corrections to be incorporated in this para accordingly. It is mentioned in this Para “*The generated topsoil will be stored at the earmarked 0.9 ha safety barrier area & it will be utilized for plantation*” which should be corrected as “Topsoil generated during the plan period will be concurrently used for plantation and there will be no storage as mentioned above in scrutiny comment no33.
42. Para 8.3.5(Pg.92-97)-The year wise proposal for item no 8.3 shall be given specifically as per the mine plan universal format and all details on the reclamation and rehabilitation work year wise may be given accordingly as per the above scrutiny comments of PMCP chapter (8.0) and as discussed during site inspection. All corrections to be incorporated as mentioned in the above scrutiny comment of PMCP chapter and table 8.14 A,B,C,D, E& table 8.15 to be corrected accordingly.
43. Para 8.6: Financial assurance (Pg. 102-104)- The text and table in this Para need to be corrected & recalculated as per the aforementioned scrutiny comments for Geology & Exploration chapter (1.0), Mining chapter (2.0), disposal of waste(4.0), & PMCP chapter(8.0).The land use should be given as per the latest date of survey& as mentioned above in scrutiny comment no. 39 and discussed in details during site inspection. It should be ensured that total area comes to 40.87 ha in the “Grand Total” row for the “**Area put on use at start of Plan period**” & “**Total Area**” put to use at the end of plan period. The corrections need to be incorporated in all relevant portions of the document, table, Annexures & plates.The Financial Assurance amount shall be recalculated with all the aforementioned corrections and copies of the bank guarantees in accordance with Rule 27 of MCDR 2017 to be enclosed as Annexure and reference of the Bank guarantee details should be mentioned in this Para.
44. **PART-B-Para 9.0- CERTIFICATES/UNDERTAKING/CONSENTS**
- i) Consent Letter/undertaking/certificate from the applicant: The “ Review& updation of the Mining Plan” to be corrected as “ Review and updation of mining plan (submitted under Rule 17(2) of MCR 2016) including progressive mine closure plan (submitted under Rule 23 of MCDR 2017). Para no 01 is not as per the universal format. The complete para should be checked and corrected as per the universal format. The letter should be signed by the nominated owner as per scrutiny comment no 8. The name of the nominated owner along with designation, and name of company should be given as per the format.
- ii) Certificate from QP: - The portion “Review& updation of Mining plan” should be corrected as “Review and updation of Mining Plan including Progressive mine closure plan”.
- iii)The name of the mine to be corrected as “**Doddabyladakere Limestone Mine**”.
45. **Para 10, List of the Plans and Sections to be submitted:**
- a) All the plans & sections to be prepared in UTM grid and Northing & Easting gridlines should be clearly demarcated throughout the plan. Also, a scale of the plan at least twenty-five centimetres long and suitably subdivided may be shown on all the related plates. The Mine Lease boundary along with 7.5 m safety zone should be prominently demarcated in all related plans & section. The other safety zone for Nala/Road/Villages/Electric power line etc. if anyinside the ML area as per the statutory norms should also be demarcated along with the details of the safety zone, in the index.
- b) It should be ensured that all attached plans & sections are prepared as per the content & scale specifications, of Rule 31(General requirement about Plan & Sections) of MCDR 2017.All plans and sections should be signed with date by certified surveyor, Qualified Person, Geologist, Mining Engineer as per provisions of MCDR 2017.
- c) Key Plan (Plate No. 1): All requirements as per rule 32(5) of MCDR 2017 should be incorporated and the plate should be corrected accordingly. The plan should show the boundary of the mining Lease in Latitude & Longitude and also the adjoining area lying within 5 kms, Contour should not be more than 20 m intervals and the plan should be prepared at 1:50,000 scale, Natural drainage system such as rivers, nallahs, stream etc., roadways, boundary of all villages and towns with their population, places of historical & archaeological importance, forest with tree density, predominant wind direction etc. as per the provision of aforementioned rule. The index to be updated accordingly. As mentioned above in scrutiny comment no 11, the boundary co-ordinates of the mining lease should be given in latitude and longitude (dd mm ss) in WGS-84 datum as per the DGPS map duly certified by State Government. The Topo sheet no to be also checked and corrected.
- d) Lease Sketch (Plate No-2)-The Lease sketch attached with the submitted document is not proper. The proper lease sketch clearly demarcating the mine lease boundary superimposed on cadastral map showing all Khasra nos./survey nos. and Latitude & Longitude co-ordinates of all the Mining Lease boundary pillars in degree

minutes and Seconds (dd mm ss) in WGS-84 datum and duly certified by the State Government should be enclosed. The same boundary pillars and mine lease sketch should be replicated in all other plan.

- e) Surface Plan (Plate No-3): The corrections mentioned above in this Para along with the corrections mentioned in scrutiny comment no. 18 should be incorporated and updated surface plan should be furnished. The plate should incorporate all the details as per Rule 32(1)(a) of MCDR 2017. The index of the plate should have all the features demarcated on the plan. Also, the corrections as discussed during site inspection to be incorporated in the surface plan.
- f) Geological Plan & Sections (Plate no. 4&5):
 - i) The plates should be checked and all corrections to be specifically incorporated as per the aforementioned scrutiny comments of Geology and Exploration chapter (1.0) and discussed during site inspection. The plate should incorporate all the details as per Rule 32(1)(b) of MCDR 2017 like all lithological units in the area, already drilled boreholes, proposed boreholes for the plan period, structural details like dip, fold, fault etc. if any, contour interval not more than 10m, the area covered under different explorations limits G1, G2, G3 to be clearly demarcated and area to be mentioned in tabular format in plate. The section lines at regular interval from one boundary of the lease to the other based on which Geological sections are prepared.
 - ii) Geological Section (Plate No. 5)-All corrections to be incorporated as mentioned above in scrutiny comment no 20 and discussed during site inspection. The Geological section should indicate the mineral reserve and Resource under different UNFC code. The section should be in-line with the Reserve/Resource estimation done under different UNFC category. The lithology of the borehole logs and sections should be matching
- g) Production & Development Plan (Plate No.6A-6E):
 - i) These plates should be corrected as per the aforementioned scrutiny comments for Geology(1.0), Mining (2.0), Disposal of waste (4.0), & Progressive Mine Closure plan (8.0) chapters. The Year-wise production and development plan should be as per the corrected Year-wise Production and development sheet enclosed as Annexure-XVI.
 - i) The lithology as given in the geological plan should also be given in all the production & Development plans.
 - ii) The proposed Mine development & waste dump details for Year 2021-22(from 25.08.2021), 2022-23, 2023-24, 2024-25 & 2025-26 should be given in tabular format in plates also as per aforementioned scrutiny comment no 28.
 - iii) The environmental protective work proposed year wise should also be given in tabular format as per the PMCP chapter (8.0).
- h) Production & Development section (Plate No 7)- Individual Year wise section should be prepared and furnished separately for each year as per the respective production and development plan.
- i) Conceptual Plan (Plate No 8)-All the corrections to be incorporated as per the aforementioned scrutiny comment no 31. The Existing land use, plan period land use, and conceptual period land use to be rechecked as per the aforementioned scrutiny comment no 31(vii) and all corrections to be incorporated in the plate. The steps & measures proposed to be taken to reclaim the mining lease area including re-grassing at the conceptual stage of mine should also be given. The area for conceptual period land use to be given in tabular format in the plate also as per above scrutiny comment no 31(vii).
 - ii) Conceptual Section (Plate no 9) may be corrected and furnished separately accordingly.
- j) Environment Plan (Plate No 10): The Environmental plan has not been prepared in accordance with Rule 32(5)(b) of MCDR 2017. The environmental plan should be prepared of the mining lease inclusive of the adjoining area within 500 m of the boundary of a lease, on 1:5000 scale and contour lines at 5m interval. All features to be included as mentioned in Rule 32(5) (b) of MCDR 2017. All the Air, Noise, Water monitoring stations as mentioned above in Scrutiny comment no 39 should be demarcated clearly and indexed.
- k) Reclamation plan (Plate no 12): All corrections to be incorporated as per scrutiny comment no. 40 & 42. The year wise proposal for reclamation & rehabilitation measures should be shown and indexed. All the tables as mentioned in aforementioned scrutiny comment no 40 should also be given on plate and should be clearly demarcated year-wise with distinct colors.
- l) Financial Area Assurance Plan (Plate no. 11): This plate should be corrected in accordance with the comments offered for Para no. 8.6, (Scrutiny comment no 43). The Financial assurance table given in plate should also

be corrected accordingly and all the area shown in the table should be clearly demarcated on plate and indexed.

- m) All the plates should be placed serially in a proper bound folder. The list of plates should be checked and mentioned accordingly in the text and the cover page of the folder.

46. **Para 11, Annexure:**

- a) The Supplementary /Executed lease deed for the period beyond 24.08.2021 in compliance to Sec. 8A (5) of MMDR Act 1957 has not been submitted. The same should be submitted.
- b) The mine is non-working since 10.07.2017 as per the temporary discontinuance notice enclosed with the document. The supporting document to be furnished from the State Government, communicating the status of the Lease and that the Lease has not lapsed under Rule 20 of MCR 2016.
- c) The name of the Company is changed from M/s Madras Cements Ltd. To M/s The Ramco Cements Limited. All supporting documents should be furnished that the change of name has been intimated to the State Govt. under Rule 61 of MCR 2016.
- d) The latest copy of the resolution of Board of Directors nominating the owner should be enclosed. The photo identity card of the nominated owner with permanent address proof should be enclosed
- e) The List of members of Board of Directors to be enclosed.
- f) The copy of Memorandum of Association and Certificate of Registration of the Company to be enclosed.
- g) The copies of violation letters issued by IBM and its compliance thereof as mentioned in above scrutiny comment no 14 should be enclosed.
- h) Annexure-XI-The Lithologs and chemical analysis details for the complete 14 boreholes drilled during the period 2000-01 & 2013-14 should be attached as per the Form-J format of MCDR 2017 and should be signed by Geologist. The Lithology of the borehole log should match with the Geological section. The chemical analysis report for the drilled exploratory boreholes for entire strata for all radicals from NABL accredited Laboratory should also be furnished in the annexure. The annexure should be corrected/added accordingly.
- i) The chemical analysis report from NABL accredited laboratory of the High magnesia Limestone taken as OB/SB/IB should be enclosed as mentioned above in scrutiny comment no 27(iv)& 33.
- j) Annexure-XIV – All the corrections to be incorporated in the Feasibility study report as per the aforementioned scrutiny comment no 22(iii). The Feasibility study report should be signed by QP.
- k) Annexure-XIII & XV- The corrections to be incorporated in Mineral Reserve calculation as per above scrutiny comment of Geology (1.0) chapter and detailed during site inspection.
- l) Annexure-XVI- The corrections to be incorporated in Annual production and development plan as per above scrutiny comment of Geology(1.0) & Mining(2.0) chapters and detailed during site inspection.
- m) The Slope stability study report from CSIR institute & the 106(2)(b) permission from DGMS for working with Deep hole drilling and blasting with use of heavy machineries under MMR 1961 as mentioned above in scrutiny comment no 29(v) may be enclosed.
- n) Copies of the bank guarantees in accordance with Rule 27 of MCDR 2017 to be enclosed as mentioned above in scrutiny comment no 43.
- o) All the other annexures as mentioned in the above scrutiny comments of different chapters and communicated during site visit should also be added/corrected.
- p) Good quality photographs should be enclosed showing land use of the lease area, environmental status of the area, Mine Lease Boundary pillars etc.
- q) All the annexure to be properly numbered/paged and relevant annexure to be signed by QP. The Page no range should be accordingly given in list of Annexures. All the annexures should be legible.
