

SCRUNITY COMMENTS ON FINAL MINE CLOSURE PLAN IN RESPECT OF KARADIKOLLA IRON ORE MINE (ML NO. 2546) OF M/S. CHOWGULE AND COMPANY PRIVATE LIMITES, EXTENT 103.67 HA., BHAVIHALLI VILLAGE, SANDUR TALUK, BELLARY DISTRICT OF KARNATAKA STATE.

All the headings, subheadings should be replicated as per the standard guidelines as given in “**IBM Manual for Appraisal of Final Mine Closure Plan July2018**”. On the Cover page “8A” to be corrected as “8A (6)” of MMDR Amendment Act’ 2015.

Chapter-I(Introduction and General Information) -(Pg-1-34)

1. **Para 1.0-Part-A-(Introduction): - (Pg-1-13)-i)**- All the lease deeds from initial grant to be enclosed as annexure and reference to be given under this Para(Pg no-2).
 - ii) A copy of the annual PMCP report submitted for the year 2020-21 to be enclosed and reference to be given under the Para (Pg no-5).
 - iii) “Rule 15(1)(a)” mentioned under Pg-7 to be corrected as “Rule 15(1)”.
 - iv) The pillar co-ordinates & ID as given in DGPS Lease sketch (Plate-4) in WGS-84 datum and approved by the State Govt to be given under this Para. The co-ordinates and Pillar nomenclature provided under Pg-4 to be checked and corrected accordingly.
- iv) **Brief history of mine-(Pg-9-13)-** The details have already been provided earlier and also it will come in subsequent Paras. Accordingly, the complete information provided in the para to be deleted from Pg-9 to 13.
2. **Para 1.1-Part-B-General information (Pg-14-15)- i) Para 1.1.1- Name of the Lessee-(Pg-14)-** The name of the Company is changed from M/s. Chowgule and Company Limited to M/s. Chowgule and Company Private Limited. The existing lease deed enclosed with the document which is valid till 22.09.2023 is in the name of **M/s Chowgule and Company Limited**. Accordingly, the supporting documents should be furnished for intimation and acceptance of change in name by the State Govt. under Rule 61 of MCR 2016 & Rule 49 of MCDR(Amendment) Rules 2021.
 - ii) **Para 1.1.4-Name of Partner/Directors -(Pg-14-15)-**The updated List of Board of Directors to be furnished as Annexure and reference to be given under the Para, and the nominated Owner to be one of the Director of the Company nominated 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. The reference of the Photo identity card of the nominated owner to be also mentioned.
 - iii) **Para 1.1.6-(Pg-15)-** The heading to be corrected as “**Mineral(s) which lessee intends to mine**”. The contents under the para to be corrected as “**Iron ore**”
3. **Para 1.2-Part-C-(Location and accessibility of mine)- (Pg-16-18)-i) Para 1.2.7-Details of the Lease area-(Pg-16)-** The table under the Para to be corrected as per the format and “Total (a+b) column to be added and details to be provided. The letter mentioned under the Para to be enclosed as annexure and reference to be given. The Forest clearance letter reference to be also mentioned under the Para.
 - ii) **Para 1.2.13-Latitude & Longitude of all corner boundary pillars-(Pg-17-18)-**The pillar co-ordinates are not matching with the DGPS Lease sketch as approved by State Govt. (Plate-4). The co-ordinates of pillar A, D, E, G, H-1, H-2, I etc. to be checked. The pillar co-ordinates as given in DGPS Lease sketch in WGS-84 datum and approved by the State Govt to be given under this Para.
4. **Para 1.3-Part-D-(Details of last approved mining plan) -(Pg-19)-** All IBM approval letters for Mining plan to be enclosed as Annexure and reference to be given under the Para. The details under the Para are not given correctly as the date of approval of modification of mining plan is 07.02.2019 for the period 2018-19(from Jan 2019- Mar 2019) to 2022-23 whereas it is mentioned 11.12.2017. The other details under this table to be also checked and corrected accordingly.
5. **Para 1.4-Part-E-(Review of Earlier Approved proposals given in the MP/MMP)-(Pg-19-34)-i)**Since the last modified mining plan was approved for the period 2018-19 to 2022-23, the review to be done accordingly for the period 2018-19, 2019-20 & 2020-21(till dd/mm/yy). The review under Exploration, Development, production, Reclamation etc. under the para should be done for the worked-out period of the last approved document only. Accordingly, year “2022-23” to be removed from the tables.
 - ii) The proposals vs actual to be reviewed year-wise for the 2018-19, 2019-20 & 2020-21(till dd/mm/yy) w.r.t the last approved document and the figures as reported in the respective year Annual returns & monthly returns. The Reclamation & Rehabilitation figures(Toe wall, Garland drain, settling pond, Rain water harvesting pits, backfilling afforestation etc. to be also reviewed year-wise w.r.t the approved proposals of the last approved document and the figures as reported in Annual returns & PMCP report of the respective year. All the Annual PMCP reports to be enclosed and reference to be given under the relevant Para.
 - iii) **1.4.24(Measures for control of dust)/1.4.25(Measures for control of noise and ground vibration)/1.4.26(Quality of air)/1.4.27(Quality of Water)-**The environmental monitoring report(dust/air/water/noise) for last quarter of each review year may be enclosed and reference to be given under the relevant Para. For the ground vibration, the blasting vibration monitoring report of each review year to be enclosed and reference to be given under the relevant para. The mitigation measures as approved in the last document and the actual measures taken may also be detailed.

iv)-1.4.28- (Area proposed to be put to use in last approved MP/SOM/RMP/MMP/FMCP)- The Actual area(ha) for Forest, non-forest & total area for different items to be given w.r.t the proposed area(ha) as per the last approved modified mining plan.

Chapter-II(Geology and Exploration) -(Pg-35-44)

6. It was observed during examination of the Geology Chapter that the authentic Geological data have not been provided. **The Geological sections have not been prepared as per the guidelines of the Minerals (Evidence of Minerals Contents) Rules 2015 and the IBM notification no. C-284/3/CMG/2017 dated 25th April, 2018 for threshold value.**

i) For Southern block for Sec 3-3' the borehole KDK-21 ends at 50.10 % Fe at 960 mRL. There is no further drilling data available for below mRL but still ore has been shown below the borehole depth without any exploration data. Similarly, for KDK-11 where borehole ends at 68 % Fe and there is no exploratory data for the BHQ shown below. Sec 4-4' has not supporting borehole data for the lithology shown. At Sec 5-5' borehole KDK-20 ends at 40.50 % Fe and there is no exploratory data for BHQ shown on the section below the hole. Similarly at Sec 7-7' for KDK-51, KDK-19, KDK-22 where borehole ends at the mineralized zone itself at 66.13 % Fe, 46.80 % Fe & 60.70 % Fe. There is no exploratory data available for below mRL. Similar is the case at Sec 8-8' for KDK-24. For Sec 9-9' also KDK-56, KDK-16 & KDK-17 ends at mineralized zone 46.39 % Fe, 41.79 % Fe and 64.82 % Fe. There is no supporting exploratory data available for BHQ shown on the section and also ore has been shown beyond the depth of borehole. Similar is the case with sec 10-10', 11-1' & 12-12' too.

ii) For Central block also at Sec I-I' the borehole is ending with 44.34 % Fe which is shown as BHQ. For Sec J-J' no supporting boreholes available. For Sec K-K' borehole KDK-81 ends at 47.92 % Fe and below the borehole BHQ is shown without any exploratory data available. For Sec M-M' ore is shown beyond the depth of borehole KDK-1 without any supporting exploratory boreholes. Similar at Sec N-N' for KDK-2. For KDK-82 at Sec O-O' the borehole ends at 42.78 % Fe, there is no exploratory data for BHQ depicted in the section below the borehole. At sec Q-Q' borehole KDK-3 is shown in clay/phyllite/shale whereas assay file indicates Fe from 60.24 % to 47.93 %. For Sec R-R' borehole KDK-70 ends at mineralized zone with Fe-65.23 %. There is no supporting exploratory data for BHQ depicted in section below the borehole. Similar is the case with KDK-7 too. At Sec S-S' KDK-68 ends at 57.08 % Fe. Similar is the case at Sec T-T' for KDK-68, W-W' for KDK-13, KDK-27, KDK-14 & KDK-15, X-X' for KDK-10, KDK-4, KDK-89, KDK-65, Y-Y' for KDK-12 & KDK-100. At Sec U-U', V-V' & Z-Z' there is no exploratory data available to depict the depth wise parallel band shown.

iii) For Northern block- For Sec C-C' at Borehole KDK-29(Northern portion), the orebody has not completely exhausted but backfilling has been carried out at the portions as shown in the section. Similar is the case at Sec E-E', F-F', H-H'. One of the band presents at the Northern side of the north block has not been completely explored. There is G-2 area still available from Sec A-A' to Sec M-M'. Complete exploration of the area needs to be carried out to upgrade the area to G-1 level and no backfilling should be carried out at these portions. The portions where waste dumping has already been done, the same needs to be considered as temporary dumping and is to be rehandled completely.

iv) It is observed that the exploration has not been done over the entire lease area in accordance with Rule 12(4) of MCDR 2017 to bring the entire potentially mineralized area to detailed G-1 level of exploration. The Lease is expiring on 22.09.2023 and same needs to be done in the current plan period mandatorily. Also, as mentioned above sufficient boreholes have not been drilled to delineate all the ore bands in North, Central and South block. Further at depth also, sufficient boreholes have not been drilled to establish the ore body at depth w.r.t the threshold value notification of IBM i.e., 45 % Fe (Min) for haematitic ore and 35 % Fe (Min) for Haematitic Siliceous ore. As already detailed max boreholes have been stopped at the ore zone itself and further there is no exploratory data for BHQ. In some holes (Annex-15 may be referred) like KDK-15, KDK-16, KDK-19, KDK-20, KDK-21 Fe percentage in BHQ has been shown as 50.10, 59.50, 63.10, 59.70, 58.40 etc. respectively. This indicates that complete estimation for Haematitic ore/Haematitic siliceous ore is not as per the IBM threshold value guidelines. BHQ is to be considered only for Fe < 35 %. All the ore having Fe ≥ 35 % to be considered for Reserve/Resource estimation for Haematitic iron ore & Haematitic siliceous ore as per the IBM threshold value guidelines. Since the ore body is dipping at 50^o to 70^o deeper intersection of boreholes to be worked out at different sections so that the ore body continuity at depth to be established. The depth of exploration should be up to the discontinuance of the ore body and it shouldn't be stopped at mineralized zone

v) 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 lithologs etc.

vi) ***Since the Lease is expiring on 22.09.2023 and the Lessee is required to submit the State Government and the Indian Bureau of Mines, a Geological Study Report prepared in the manner specified in the Minerals (Evidence of Mineral Contents) Rules, 2015, within three months after the completion of the***

exploration work as per Rule 12(4B) of Mineral Conservation and Development (Amendment) Rules, 2021, accordingly all the pending exploration required to be completed in the plan period and all the above-mentioned errors in the Geology are to be rectified. The area under different exploration limits to be reviewed both laterally and vertically and the exploratory drilling required to convert the entire potentially mineralized area to G-1 to be worked out and proposed in the balance plan period mandatorily.

vii) No Backfilling to be carried out in the area where the mineral has not been exhausted completely (i.e., all iron ore zone till Fe \geq 35 % have been completely extracted) and also where the exploration is pending either for lateral or vertical continuity of the ore bands.

7. Para 2.1- (Local Geology)-(Pg-35-41)- a) It is mentioned "The grade of these ore bodies ranges from 45 % to 64 % Fe" which may be corrected as "35 % to 64 % Fe".)- The Haematitic Siliceous ore is also found in the Lithologs. Accordingly, the details of the Haematitic Siliceous ore may also be added in the para. The type and depth of weathering zone if any to be also detailed in this Para. The lump is to fines ratio is to be mentioned as per the nature of the deposit. The last approved document mentions fines: lumps ratio as 60:40(Pg-35).

b) It should be specifically mentioned under the para "**All the materials analysing equal or more than 35 % and above have been considered as ore**" as per IBM notification no. C-284/3/CMG/2017 dated 25th April, 2018 for threshold value of Hematitic ore and Hematitic siliceous. The number of ore bands inside the lease area with physical and chemical characteristics details to be also given specifically under the para.

c) The details regarding strike/trend of ore body etc. may be furnished.

8. Para 2.2-(Details of prospecting/exploration carried out in the lease area)-(Pg-41-42)-All the headings, subheadings in this para should be corrected as per the IBM manual for FMCP 2018

i) 2.2.1-(Pg-41)-The details of trial pits should be specifically given as per the prescribed tabular format.

S. No.	Year of exploration	Number of Pits/Trenches	Explored Depth(m)	Spacing/ Grid Interval	Total Area Covered (ha)	Scale of Exploration (G1/G2/G3)
--------	---------------------	-------------------------	-------------------	------------------------	-------------------------	---------------------------------

The trials pits should be clearly marked on Geological plan & sections and reference should be given in this Para.

ii) 2.2.2-(Pg-41)-The Litho-log and chemical analysis details of all the previous drilled 101 boreholes as per Form-J format of MCDR 2017 may be enclosed and reference to be given under the para. The complete borehole database to be enclosed as annexure and to be updated/corrected accordingly and as per above scrutiny comment no 6.

iii) 2.2.3-(Pg-41)-a) The sampling details of all the previous drilled exploratory boreholes as per the format like type of sample (Core/Rock chip), total samples collected, total sample analyzed to be given in the table. The reference of Form -J to be given under this Para.

b) The chemical analysis details of Haematitic Siliceous ore to be also included. The chemical and Mineralogical analysis report to be enclosed with all additions/corrections as mentioned above, as per the format and reference to be given under para. The NABL accreditation certificate of the lab to be also enclosed and reference to be given under this Para.

c) The NABL certification of the laboratory along with the scope of test works for the lab, which includes Bulk density testing has to be enclosed as Annexure and reference to be given under this Para. **The average Bulk density for Haematitic ore, Haematitic Siliceous ore & OB to be calculated accordingly and details to be given in this para. The following table to be included.**

Type of ore	Average Bulk density
Haematitic Ore	
Haematitic Siliceous Ore	
OB	

iii) 2.2.5- (Pg-42)-a) The exploration area limits need to be reviewed thoroughly as major errors are found in the Geology as mentioned above in scrutiny comment no 6 and the balance area under G-2 & G-3 with maximum depth to be calculated in accordance with Minerals (Evidence of Mineral Contents) Rules, 2015. The maximum depth to which exploration has been done to be specifically mentioned as per the format.

b) **Further area to be upgraded from G-3 & G-2 to G-1 at depth, to be also specifically calculated and same should be mentioned under the Para.**

iv) 2.2.6- (Pg-42)- UNFC code "333" have been mentioned under the para which is incorrect. The reserve blocked below the ultimate pit limit, safety zones or due to economic constraints assigning the relevant UNFC code to be calculated in below mentioned tabular format and to be given under the para. MEMC Rule 2015 may be referred Also, corrections to be incorporated as mentioned in above scrutiny comments of Geology chapter. The calculations to be done separately for Hematitic ore & Hematitic siliceous ore. The details under the table of this Para to be corrected accordingly.

Sl. No.	Reserves blocked due to	Cross section/Block	Sectional area/block area (in Sqmtr)	Influence (m)	Depth (m)	Volume (m ³)	Bulk Density (t/m ³)	Resource Quantity in tonnes	UNFC code	Type of Land	Name of the radical	Grade (%)	Method used for resource estimation
---------	-------------------------	---------------------	--------------------------------------	---------------	-----------	--------------------------	----------------------------------	-----------------------------	-----------	--------------	---------------------	-----------	-------------------------------------

9. Para 2.3: (Balance estimated mineral reserve/resources in different categories of UNFC are given below:-(To be indicated separately for Forest and Non-Forest area) As on.....) (Pg-43)-a) The Reserves/resource estimation to be done as on 1.04.2021. Also as already mentioned in above scrutiny comment the Reserve/Resource estimation to be done for Haematitic ore and Hematitic siliceous ore separately as per the IBM threshold value. No exploration is carried out after approval of the last document. Accordingly, the total Reserve figure as reported in AR 2020-21 & the last approved document should be in line after depletion of the production for subsequent month/years. Under the grade column average grade is to be given rather than mentioning the grade range. The complete table under this Para along with calculations to be corrected accordingly.

b) The detailed Resource calculation to be done as per the below mentioned tabular format.

Sl. No.	Cross section/Block	Sectional Area/Block area (sqmtr)	Influence (m)	Depth in mtr	Volume (m ³)	Bulk Density (t/m ³)	Resource Quantity (t)	Level of Exploration	Type of Land	Name of the radical	Grade (%)	Method used for resource estimation
---------	---------------------	-----------------------------------	---------------	--------------	--------------------------	----------------------------------	-----------------------	----------------------	--------------	---------------------	-----------	-------------------------------------

The detailed Reserve calculation to be done as per the below mentioned tabular format.

Sl. No.	Cross section/Block	Sectional area/block area (Sqm)	Influence (m)	Depth (m)	Volume (m ³)	Bulk Density (t/m ³)	Reserve Quantity in tonnes	UNFC code	Type of Land	Name of the radical	Grade (%)	Method used for resource estimation
---------	---------------------	---------------------------------	---------------	-----------	--------------------------	----------------------------------	----------------------------	-----------	--------------	---------------------	-----------	-------------------------------------

c) Threshold value & cut off parameters- It is to be specifically mentioned under this Para **“Threshold value for Hematic ore is 45 % Fe (Min) and Hematitic Siliceous ore is 35% Fe (Min)” as per IBM notification no. C-284/3/CMG/2017 dated 25th April, 2018. The specific Cut-off grade is to be arrived based on the feasibility report as per the last approved document.**

d) The recovery factor considered for resource calculation is to be mentioned specifically as taken in calculation The supporting **“Recovery study report”** may be enclosed.

e) All the corrections to be incorporated under table in this Para as mentioned above The Reserve & Resource estimation to be given as on 1.04.2021. Separate tables to be given for Haematitic ore and Haematitic siliceous ore with all details as per the format. The Quantity under different UNFC code, avg grade etc. to be corrected as mentioned in above scrutiny comments. The total Reserve & Resource figure in this para should match with the total resource figure. The corrections to be incorporated in related text, annexures, and plates accordingly.

10. Para 2.4 (Broadly indicate the future programme/proposals for compliance of Rule 63 of MCDR' 2017 in regard to "Preservation of Cores, etc."-(Pg-43-44)-i) No Exploration proposals are given which is not acceptable due to reasons above in scrutiny comment no 6.

ii) The remaining area under G-2/G-3 as per above scrutiny comment no 8(iii) for Para 2.2.5 needs to be calculated thoroughly. Also, it should be reviewed w.r.t the above scrutiny comment no 6 where there are number of sections in North block, Central block and South block where the exploration has not been completed laterally and vertically in accordance with Rule 12(4) of MCDR 2017. The complete exploratory proposals to be worked out thoroughly to upgrade the entire potentially mineralized area to G-1 both at lateral and vertical extent in accordance with Minerals (Evidence of Mineral Contents) Rules, 2015. The Exploratory proposals to be worked out so that Haematitic ore, Haematitic siliceous ore, BHQ, complete delineation of all the ore bands in North, central and south block, non-mineralized area etc. are established. Since the ore body is dipping at 50-70 degrees, inclined hole may be worked out rather than vertical holes to target the orebody intersection at required depth. The depth of exploration should be up to the discontinuance of the ore body and no borehole should be stopped at mineralized zone. For the non-mineralized area also, supporting exploratory data is required. The borehole assessment may be done accordingly and the borehole proposals in the period is to be proposed accordingly as per the below-mentioned tables.

S No	Year	In forest area				In Non- Forest				Total bore hole	Total Mtr	Attachment
		No. of bore holes	Total mtr	Type of borehole	Grid interval	No. of BH	Total mtr	Type of BH	Grid interval			

Sl. No	BH ID	Collar level (m)	Angle	Co-ordinates in UTM (WGS-84)		Depth (m)
				Easting	Northing	

- iii) The proposed borehole should be marked on the Geological plan & sections and the plate reference to be given here.
- iv) Brief details regarding preservation & maintenance of samples obtained from the trial pits/boreholes etc. in accordance with the rule 63 of MCDR, 2017 should be mentioned here; few photographs of the previous generated and preserved samples should be enclosed.
- v) It should also be undertaken in this para that the ***Lessee will submit the State Government and the Indian Bureau of Mines, a Geological Study Report prepared in the manner specified in the Minerals (Evidence of Mineral Contents) Rules, 2015, within three months after the completion of the exploration work as per Rule 12(4B) of Mineral Conservation and Development (Amendment) Rules, 2021 Chapter-III (Mining)-(Pg-45-47)***
11. **In accordance with Rule 34(A)(3) of MCDR Amendment Rules, 2021 the lessee is required to submit processed output [digital elevation model (DEM) and Orthomosaic] images obtained from drone survey of the mine lease area and up to hundred metres outside the lease boundary within six months, before submission of any mining plan document. The same may be submitted in accordance with the provision of the above rule.**
12. **Para 3.1 (Year wise excavation proposals)- (Pg-45-46)-i)** Year-wise excavation proposals should be mentioned for 2021-22 (Oct-21 to March-22), 2022-23 & 2023-24 (Till 22nd Sep-2023). The corrections to be made in all relevant portion of the document, annexures and plates.
- ii) All corrections in the related calculations, plan sections, annexures to be made as per the above scrutiny comments of the Geology Chapter (II).
- iii) **The detailed year-wise development and production calculation sheet bench & section wise has not been prepared. The same should be prepared and enclosed as annexure and reference to be given under para.** The year-wise details to be also given as per the below mentioned table.
- iv) For the "bulk density of OB" average bulk density as per scrutiny comment no 8(ii)(c) for para 2.2.3 to be mentioned. For the "bulk density of mineral" average bulk density of Haematitic ore and avg bulk density of Haematitic siliceous ore as per para 2.2.3 to be mentioned. **The Recovery percentage depends on the cut-off grade arrived as mentioned above in scrutiny comment no 9(d) for para 2.3.** If the cut-off grade is 35 % Fe(min) and all the ore is saleable without any Mineral Reject generation, in such case Recovery is 100 % or else if there is no generation of Haematitic siliceous ore in the sections of the central pit where mining proposals are given and cut-off grade in such case is 45 % Fe(min), in such case also recovery percentage is 100 %.
- v) If there is generation of Haematitic Siliceous ore and the recovery is 100 %, the individual Haematitic siliceous ore quantity for each year to be given separately in the "production associated" column of the below mentioned table inserting the heading "Haematitic Siliceous ore".
- vi) If there is generation of Haematitic Siliceous ore and is not used by the lessee as per the arrived cut-off grade then same may be included in mineral reject and recovery percentage to be arrived accordingly. In such case detail may be given in subsequent paras as per the format for stacking of mineral reject etc.
- vii) The ROM production proposals to be specifically within the CEC permissible Limit of 0.50 million Metric Tonne per Annum (MMTPA). As mentioned above if there is generation of Haematitic siliceous ore the production of the same is to be calculated separately as per the respective bulk density.
- viii) The top Bench mRL and Bottom bench mRL for the respective working year to be mentioned under the column "Benches" in the below mentioned table.
- ix) The stripping ratio to be calculated" in tons". Under foot Note of the below mentioned table it may be specifically mentioned that stripping ratio have been calculated "in tons".
- x) The year-wise proposed excavation should be in-line with the conceptual plan of the last approved document.**
- xi) The **development & production sheet** to be prepared accordingly incorporating all details & corrections as mentioned above. The corrections to be also incorporated in all relevant para of the text, tables, annexures and plates. The reference of the year-wise development and production plates to be also given under the para.

Sr. No.	Year	Pit ID (Block)	Benches		Direction	Bulk Density of Overburden (BD1) (ton/m ³)-BHQ& Waste	Bulk Density of Mineral (BD2) (tonne/m ³)	Topsoil Volume (Length x Width x Height) (m ³)	Over Burden Volume (Length x Width x Height) (m ³)	Over Burden Quantity (t)	ROM Volume (Length x Width x Height) (m ³)	ROM Quantity (t)*	Recovery	Mineral Reject (t)	Production Main (t)Haemattic iron ore	Production Associated - Hemattic Siliceous iron Ore(t)	Location of Advancement	OB to Ore Ratio
			Top	Bottom RL														

xii) (b)- Year wise Mineral Rejects, fines & Tailings/slimes generation-(Pg-45)- Year wise ROM, Clean/saleable ore, Mineral Rejects, Fines, lumps etc. quantity may be corrected in the table as per the above comments. The ratio of lumps: fines may be mentioned under this Para also as per above scrutiny comment no 7 and the lumps and fines quantity year-wise to be arrived accordingly. The below mentioned table to be also included in the para and details to be provided.

Sl. No.	Year	Total Handling (t)	Waste Quantity (t)	ROM Quantity (t)	ROM Quantity Saleable Mineral (t)	ROM Quantity Mineral Reject (t)	OB to Ore Ratio (Waste Quantity / ROM Quantity)	Grade Range (%)
---------	------	--------------------	--------------------	------------------	-----------------------------------	---------------------------------	---	-----------------

13. Para 3.2(Dump working)- (Pg-46)-Year 2021-22 to be mentioned as "2021-22(Oct-21 to Mar-22).
14. Para 3.3(Year wise production)-(Pg-46-47)- i) The corrections to be incorporated as mentioned above in scrutiny comment no 12 & 13 and details to be provided in the table of this para accordingly.
ii) The Bulk density for Ore and OB to be mentioned as per the format.
iii)The table as mentioned below to be also added in the Para and details to be provided.

Year	2021-22 (Oct-21 to Mar-22)	2022-23	2023-24 (Till 22/09/2023)	Total
(A) Total ROM quantity (t)				
(B) Saleable ore from ROM (t)				
(C) Proposed Dump Handling Quantity (t)				
(D) Saleable Ore recovered from dump workings (t)				
(E) Total Saleable Ore (t) (=B+D)				
(F) Total Quantity Handled (t) (=A+C)				

iv)The table mentioning no of working days/annum, total man days, Output per man shift are not required as per the format and may be deleted.

Chapter-IV (Stacking of Top soil, Mineral Rejects, Fines, Tailings/slimes and their disposal) -(Pg-48-50)

15. Para 4.1-(Details of Dumps/Stacks available at the mine site)(Pg-48-49)-i) The details of all the existing OB/waste dumps, Fines stacks etc. inside the ML area to be specifically furnished as per the below mentioned table.

Particulars Of dump	Top Soil			OB/Waste			Mineral Rejects			Fines/ ore stock			Tailings/Slimes		
	Location	Area (ha)	Quantity (cuM)	Location	Area	Quantity (CuM)	Location	Area (ha)	Quantity (T)	Location	Area (ha)	Quantity (T)	Location	Area (ha)	Quantity (T)

The same should be demarcated with ID, on the surface plan. The reference of the surface plan to be also mentioned.

ii)The other details as provided in the Para are not required as per the format and may be deleted including text, table and Annexure-15.

16. Para 4.2-(Details of Top soil, Waste/OB, Mineral Rejects, Fines & Tailings/Slimes generation during the closure period of two years.)- (Pg-49)-i)The Year 2021-22 to be corrected as "2021-22(Oct-21 to Mar-22). The OB generation Quantity, Fines Quantity to be given correctly under the table after incorporating all corrections as mentioned above in scrutiny comment no 12,13 & 14 of Mining Chapter(III).
iii)The table is not as per the format. The Average grade column under fines and Tailings/slimes to be added in the table as per format and details to be provided accordingly. The Year wise Fines generation quantity to be checked as mentioned above in scrutiny comment no 12(xii) and corrections to be incorporated.
17. Para 4.3-(Details of Top soil and waste/OB disposal/management during the closure period of two years)- (Pg-49-50)-The Year 2021-22 to be corrected as "2021-22(Oct-21 to Mar-22).i)The year-wise OB/waste Quantity generation &the backfilling quantity may be thoroughly checked w.r.t the scrutiny comments of Geology chapter (II) and Mining chapter (III) and corrections to be incorporated in all related text, annexures and plates.
ii)The complete backfilling proposals to be planned systematically in 10 m stages lift wise so as to avoid creation of any void due to which there may be effect on the stability. This may be checked and corrections if any to be incorporated
iii)**No Backfilling to be carried out in the area where the mineral has not been exhausted completely (i.e., all iron ore zone till Fe>=35 % have been completely extracted) and also where the exploration is pending either for lateral or vertical continuity of the ore bands.**
18. Para 4.4-(Details of Mineral Rejects, Fines & tailings/Slimes disposal/management during the closure period of two years)-(Pg-50)-The table to be corrected as per the format. "Reuse" mentioned under the fines column to be corrected as "Utilization". The Fines generation quantity to be given correctly as mentioned above in scrutiny comment no 16. If all the fines generated will be utilized, then the same quantity may be mentioned under the "Utilization" column and accordingly under storage column "NIL" may be mentioned, else if not utilized then details may be provided as per format in storage column. The text and table under this Para to be corrected accordingly.
Chapter-V(Final Mine Closure Plan) -(Pg-51-86)
19. ***Since the Lease is expiring on 22.09.2023 all the Reclamation & Rehabilitation measures needs to be completed in this plan period. All the pending Reclamation & Rehabilitation measures as per the approved R& R plan, EC & FC specific conditions needs to be completed by 22.09.2023.The R&R proposals to be given accordingly for proposal period 2021-22(Oct-21 to Mar-22),2022-23 & 2023-24 (till 22/09/2023)***
20. Para 5.1.1-(Mined out land) -(Pg-51-53)i) The Area under mining operations comes to 23.072 ha as reported in AR 2020-21. The table under this para to be corrected as mentioned below and details to be provided accordingly.

Sl. No.	Particular	Area put to use at Start of Year (ha) (A)*	Additional Requirement (ha) (B)*	Total (ha)(C = A + B)
1	Area under Mining			
2	Topsoil stacking			
3	Overburden/Waste Dumping			
4	Mineral Storage			
5	Infrastructure (Workshop, Administrative Building etc.)			
6	Roads			
7	Railways			
8	Tailing Pond			
9	Effluent Treatment Plant			
10	Mineral Separation Plant			
11	Township Area			
12	Others to Specify			
Total				

The details provided under the above table should be in line with the land use data as reported in AR 2020-21.

ii) The details of the year wise Reclamation & Rehabilitation measures should be mentioned here for the proposal period, 2021-22(Oct-21 to Mar-22),2022-23& 2023-24 (till 22/09/2023). **All the Reclamation & Rehabilitation measures needs to be completed in this plan period.** All the Protective measures (Retaining wall, garland drain Silt Settling tanks, check dams etc.) should be reviewed w.r.t the approved R&R plan and the entire incomplete portion to be proposed in this plan period. The above FMCP measures to be demarcated distinctly on the **Reclamation plan**& also on year-wise production and development plan. The dump management plan and surface water management plan as per the approved R&R plan to be also enclosed in list of plates and reference to be given under the para. Also, it may be reviewed w.r.t the specific conditions (A) of EC and **all the pending Engineering measures to be proposed.**

All the above Engineering measures as per approved R&R should be described in details in this para and the balance R&R measures should be proposed for the proposal period 2021-22(Oct-21 to Mar-22),2022-23& 2023-24 (till 22/09/2023) as per the below mentioned table.

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)	

iii) Backfilling- The mined-out area to be reclaimed with backfilling to be also detailed under this Para as per the below mentioned table.

Year Wise Backfilling proposal					
Year	Backfilling waste quantity in Cum.	Pit ID	Area (m ²)	Top RL	Bottom RL

a) The backfilling extent and quantity may be thoroughly checked w.r.t the scrutiny comment no 6 of Geology chapter and corrections to be incorporated in all related text, annexures and plates.

b) The complete backfilling proposals to be planned systematically in 10 m stages lift wise so as to avoid creation of any void due to which there may be effect on the stability. This may be checked and corrections if any to be incorporated

c) No Backfilling to be carried out in the area where the mineral has not been exhausted completely (i.e., all iron ore zone till Fe₂O₃ ≥ 35 % have been completely extracted) and also where the exploration is pending either for lateral or vertical continuity of the ore band.

iv) The proposals may 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 plan along with index and the reference of the plan to be given in this para.

21. **Para 5.1.2(Safety and Security)**-(Pg-54)The fencing should be proposed for the excavation area to prevent endangering fall of persons/cattle etc. in terms of Rule 26 of MCDR 2017. The Grid reference for the fencing to be mentioned in this para. Also, the same should be demarcated on the Reclamation plan with index.

Fencing			
Year	Proposed Fencing Length (m)	Co-ordinates from	Co-ordinates to

22. **Para 5.1.3(Afforestation)**- (Pg-54-56)-The existing afforestation details should be furnished along-with proposals on virgin area, backfilled area, Dump plantation and plantation on ultimate benches indicating area and number of saplings. The afforestation proposals to be given accordingly for 2021-22(Oct-21 to Mar-22),2022-23& 2023-24 (till 22/09/2023).

ii)The plantation is to be proposed as per the specific conditions A(x) of EC. The density of trees should be proposed 2500 plants per hectare as per the EC condition. The area under all the dumps, Green belt/virgin area etc. to be reviewed w.r.t the specific conditions of EC & approved R&R plan and the entire balance plantation to be proposed in this plan period. The Year-wise proposal for the plan period to be given accordingly and should be clearly demarcated on the PMCP plan & also year-wise production and development plan.

iii)The plan period should 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 portion of the area which is backfilled and has reached its ground level and further there will no advancement such sections if any may be identified, the dismantled/decommissioned infrastructure area, area under dumps, etc. to be reviewed and plantation & re-grassing may be proposed in such area as per above.

Year	Area(ha)	No of plants	Location	Grid references (Northing Easting)	Species	SurvivalRate
------	----------	--------------	----------	------------------------------------	---------	--------------

Year	Re-grassing Location	Area in Ha	Grid references (Northing Easting)	Remarks
------	----------------------	------------	------------------------------------	---------

23. Para 5.1.5(Water Quality Management)- (Pg-56-62)-iIt should be specifically mentioned **"All the parameters of water quality will be monitored as per MOEF/KSPCB norms"**.The details of all the water monitoring stations should be given in this para as per the below mentioned tabular format. The reference of the Environmental Management plan should be given which would be showing all the water quality monitoring stations.

S.I. no.	Location	Code
----------	----------	------

ii) The Engineering measures for surface water management should be elaborated in this para as per the approved R&R plan as already mentioned in above scrutiny comment no 20(ii). The Engineering measures that are completed and the balance which are not completed are to be proposed in the proposal period 2021-22(Oct-21 to Mar-22), 2022-23 & 2023-24 (till 22/09/2023). All the surface water Engineering measures that are completed and further proposed should be clearly demarcated on the Reclamation plan and reference to be given in this para.

24. Para 5.1.6(Air Quality Management)- (Pg-62-68)-It should be specifically mentioned **"The Ambient air quality monitoring will be carried out as per the MOEF/KSPCB norms"**. The details of all Air monitoring stations are to be given as per the below-mentioned format. The reference of the Environmental Management plan should be given which would be showing all the Air monitoring stations.

S.I. no.	Location	Zone	Code
----------	----------	------	------

25. Para 5.1.7(Waste management)- (Pg-68-70)-iThe backfilling details should be given for the proposal period 2021-22(Oct-21 to Mar-22), 2022-23 & 2023-24 (till 22/09/2023) as per the below mentioned tabular format.

Year Wise Backfilling proposal					
Year	Backfilling waste quantity in Cum.	Pit ID	Area (m ²)	Top RL	Bottom RL

ii) The Engineering measures for Dump management should be elaborated in this para as per the approved R&R plan. The Engineering measures that are completed and the balance which are not completed are to be proposed for the plan period-2021-22(Oct-21 to Mar-22), 2022-23 & 2023-24 (till 22/09/2023) as per above scrutiny comment no 20(ii). All the Dump management Engineering measures that are completed and further proposed should be clearly demarcated on the Reclamation plan with index and reference to be given in this para.

26. Para 5.1.11(Infrastructure details) -(Pg-71-72)-a An account of infrastructural facilities available in the ML area should be specifically given in tabular format indicating its details and present value at the end of lease period(22/09/2023) after depreciation and further their future evaluation should be evaluated. The decommissioning cost and final value of the decommissioned infrastructural facilities if any may be furnished.

Sl. No.	Infrastructure details	Present value after depreciation.	Decommissioning cost	Decommissioning details	Future utilization.
---------	------------------------	-----------------------------------	----------------------	-------------------------	---------------------

Mobile crushing and screening plant don't come under infrastructure, it comes under mining machinery. Corrections to be incorporated in the text and table of this Para accordingly.

b)The decommissioning of infrastructure may be completed before the commencement of last Quarter (i.e., before 22/06/23) of expiry of lease so that site inspection for FMCP compliances by the concerned statutory authorities may be done in the last quarter of expiry of lease. The time schedule for decommissioning of infrastructure should be proposed accordingly.

27. Para 5.1.12- (Disposal of Mining Machinery) -(Pg-72)- The details of the mining machinery should be specifically given in tabular format.

Sl. No.	Machinery	Make	HP	Nos.	Capacity	Motive power
---------	-----------	------	----	------	----------	--------------

The disposal of all mining machineries shall be completed before the commencement of last Quarter(i.e.,before22/06/23) of expiry of lease so that site inspection for FMCP compliances by the concerned statutory authorities may be done in the last quarter of expiry of lease. The time schedule for disposal of mining machineries should be proposed accordingly.The decommissioning of mining machineries and their possible post mining utilization if any to be described in this para.

28. Para 5.1.14(Economic Repercussions of closure of mine and manpower retrenchments) -(Pg-78-79)- The details of contractual and in role manpower to be given as per the last approved document. The economic repercussions of closure of mine for manpower employed directly and through contractual and remedial measures consequent to the closure of the mines, manpower retrenchments, compensation, satellite occupations etc. should be specifically described in detail in this para.
29. Para 5.1.15(Time scheduling for Closure)- (Pg-79-81)-Time schedule for closure of mines should include all the activities as proposed in chapter-V (Final Mine Closure Plan). The activities should include all Reclamation & Rehabilitation measures for Dump Management and surface water management, safety and security (fencing of mining excavation area etc.), Afforestation, Environmental protective measures & management(water & air quality management), Waste management(backfilling),decommissioning of infrastructure, disposal of mining machineries, manpower retrenchment etc. and should be supplemented by **PERT(Programme Evaluation Review Technique)/Bar chart** and these activities should be clearly shown on Reclamation plan.All the closure activities proposal should be started fromyear 2021-22 and shall be completed before the commencement of last Quarter (i.e., before 22/06/23)so that site inspection for FMCP compliances by the concerned statutory authorities may be done in the last quarter of expiry of lease. The time schedule for all closure activities should be proposed accordingly.
30. Para 5.1.16(Closure cost) -(Pg-81)-The table under this para is not complete as it doesn't includeFencing cost, Security & supervision cost, Engineering measures maintenance cost etc. This should be checked w.r.t all the proposals as proposed in Chapter V (Final Mine Closure plan) and corresponding cost to be estimated based on activities required for implementing the protective and reclamation &rehabilitation measures including maintenance and monitoring programme.**The back-up calculation of closure cost mentioned under this para should be enclosed as annexure and reference to be given under the Para.**
31. Para 5.1.17(Post closure Monitoring schedule as envisaged and Estimated cost) -(Pg-81)-Post Closure monitoring schedule related to Environmental monitoring, Security and supervision etc. further for 6 months after the date of expiry of the lease to be estimated and mentioned under the Para in tabular format.
32. Para 5.2(The information on protective measures for reclamation and rehabilitation works year wise may be provided as per the following table) -(Pg-82-84)-The details should be given specifically as per the table mentioned in para-5.2. All the proposals should be as per the aforementioned scrutiny comment for chapter V(Final mine closure plan).

Items	Details	Proposals								
		2020-21(Oct-21 to Mar-22)			2021-22			2023-24(till 22/09/2023)		
		F	NF	T	F	NF	T	F	NF	T

33. Para 5.3(Financial Assurance)- (Pg-84-85)The area under different items have not been calculated correctly. The table in this para for each year of the plan period regarding "area put to use at start of FMCP period", "additional area requirement during FMCP period" and "total area put to use" & "Net area considered for calculation" to be checked & recalculated after incorporating all corrections for Geology & Exploration chapter (II), Mining chapter (III), Stacking of Topsoil, Mineral rejects, Fines (Chapter-IV), & Final Mine Closure Plan Chapter (V).**This should be completely in line with the approved document (RMP) for the year 2023-24(till 22/09/2023).**
34. Para 5.4(Financial Assurance details)- (Pg-85)- a)The "total area proposed to be put to use in hectares" as arrived at the end of plan period ,2023-24(till 22/09/2023) should be calculated after incorporating all corrections as mentioned above and the amount of bank guarantee to be calculated in accordance with Rule 27 of **Mineral Conservation and Development (Amendment) Rules, 2021**. **The bank guarantee validity should be till the end of plan period and the last date of lodgement of claim shall be further for the period 1 year (i.e., till 22/09/2024). Copies of the bank guarantee to be enclosed.** The details to be provided as per the below mentioned table.

Total Area Proposed to be put to use in hect (Year 2021-22(Oct-21 to	Amount of Bank Guarantee (Lac INR)	Valid till (dd/mm/yyyy)	Last date of lodgement of claim	Bank Guarantee details

Mar-22) to 2023-24(till 22/09/2023			(dd/mm/yyyy)	
------------------------------------	--	--	--------------	--

35. **Consent letter/undertaking/Certificate**

- a) Para 02: It should be corrected as "It is certified that the CCOM Circular no 2/2010 has been implemented and duly authenticated DGPS surveyed cadastral plan is enclosed with the document".
- b) Para 04: It should be corrected as ".....and wherever any specific permissions are required, the applicant will approach the appropriate authorities".
- c) Para 07- "Owner" to be corrected as "Nominated owner". The designation to be also mentioned as per the format.
- d) The Consent letter/undertaking/certificate & Certificate from QP should be specifically as per FMCP 2018 format.

36. **Plans and Sections to be enclosed:**

- a) It is observed that the plans have not been prepared keeping the North and the Lease orientation as per the State Govt. approved lease sketch (Plate no 4). All the plans are to be prepared maintaining the same North and Lease orientation with boundary pillar nomenclatures and co-ordinates as per the State Govt. approved DGPS Lease sketch. The corrections to be incorporated in all related plates.
- b) All hard copy plan submission should be output of Auto-cad and soft copies submission should be output of KML/KMZ/SHP format. The soft copy of the auto-cad plans (dwg. file), to be also be submitted. All sections submission should be in dwg. Format (Auto-cad output).The individual KML file to be also prepared Layer wise as per the respective plan requirement.
- c) 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 & IBM Circular no. 1/2021.All plans and sections should be signed with date by certified surveyor, Qualified Person, Geologist, Mining Engineer as per provisions of MCDR 2017.
- d) Location Plan-(Plate no 3)- "Not to Scale" may be mentioned.
- e) Surface Plan (Plate No-5): The surface plan to be corrected as mentioned above in points (a), (b) &(c), and the scrutiny comments of Mining Chapter (III). Also as mentioned above in scrutiny comment no 3(ii), the boundary pillar co-ordinates are not as per the State Govt approved DGPS Lease sketch. The KML file of surface plan to be also prepared accordingly after incorporating all corrections. The colour codes for different features to be followed.
- f) Geological Plan (Plate no.-6):1) The plates should be checked and all corrections to be specifically incorporated as per the aforementioned scrutiny comments of Geology and Exploration chapter (II) & as mentioned above in points (a), (b), (c) & (e). The plate should incorporate all lithological units in the area, already drilled boreholes, proposed boreholes for the plan period, the area covered under different explorations limits G1, G2, G3 to be clearly demarcated and area to be mentioned in plate. The Plan should be submitted showing different colour codes for i) Lithological/Geological occurrence ii) Area under G1, G2, G3 and other features as per format. The KML file of Geological plan to be also prepared accordingly.
- g) 2) Geological Section (Plate No.6A-6E & 7)-The plate should be checked and all corrections to be specifically incorporated as per the aforementioned scrutiny comments of Geology and Exploration chapter (II) and as, mentioned above in points (a), (b), (c), (e) & (f). The existing pit profile should be in line with the surface plan and also indexed. The section should be submitted with different colour code depicting all the features as shown in surface geological plan.
- h) Production & Development Plan (Plate No.8 ,8A& 8B): These plates should be corrected as per the aforementioned scrutiny comments for Geology & Exploration (II), Mining (III), Stacking (IV), &Final Mine Closure plan (V)chapters. The Year-wise production and development plan should be as per the Year-wise development and production sheet as mentioned above in scrutiny comment no 12(iii).
 - ii) The lithology as given in the geological plan should also be depicted in all the production & Development plans with index.
 - iii) The proposal of bench development systematically mRL wise & connecting with the old benches as per bench mRL may be worked out. Also, the ramps/haul road for access to the mine pit and waste dump have to be demarcated on production & development plan. Since the lease is expiring on 22/09/2023, the production & development plan should be in line with the conceptual plan of last approved document as mentioned above in scrutiny comment no 12(x).

- iv) The environmental protective work proposed year wise should also be demarcated year-wise along with index as per the FMCP chapter (V).
- v) The KML file of each year production and development plan to be also prepared accordingly.
- i) Production & Development section (Plate No 8C)- **Individual Year production and development section have not been prepared.** The same should be prepared after incorporating all corrections as per the respective production & development plan as mentioned above in scrutiny comment no (h). The demarcated existing pit profile should be in line with the surface plan and also to be mentioned in index. The year-wise excavation and backfilling proposals with different colour depicting all the features as shown in respective P&D plan to be demarcated as per format.
- j) Environment Plan (Plate No 9): -The corrections to be incorporated as mentioned above and as mentioned in scrutiny comments of different chapters. The KMLfile of Environment plan to be also prepared accordingly.
- k) Financial Area Assurance Plan: (Plate no-10)-The corrections to be incorporated as per above scrutiny comment no 33 & 34 for Financial Assurance. The Financial assurance table may also be given in plate accordingly and all the area shown in the table should be distinctly demarcated on plate and indexed.
- l) Reclamation plan (Plate no 11): All corrections to be incorporated as per the FMCP Chapter (V) and related scrutiny comments of other chapters and above. The year-wise proposed FMCP measures for the plan period should be demarcated with different color code as per the format. The KML file of Reclamation plan to be also prepared accordingly.
- m) Reclamation sections - The Reclamation sections has not been prepared. The same to be prepared after incorporating all corrections in Reclamation plan.
- n) **DGPS surveyed cadastral plan as per CCOM Circular No-2/2010 should be enclosed as per Para 02 of the Consent letter.**
- o) The dump management plan & surface water management plan as per approved R&R to be also attached.
- p) All the Plans & Sections should be placed serially in a proper bound folder with heading "List of Plates". The list of plates should be checked and mentioned accordingly in the text and the cover page of the folder.
37. **List of documents to be Annexed.** –
- a) **The annexure number to be specifically maintained as per the format.**
- b) All the annexures as mentioned in above scrutiny comments of different chapters to be enclosed. Also, corrections in the annexures, as mentioned above in scrutiny comments of different chapters to be incorporated.
- c) The supporting documents under Rule 61 of MCR 2016& Rule 49 of MCDR(Amendment) Rules 2021 for change in name of the company to be enclosed.
- d) Annex-1- All the lease deeds from initial grant to be enclosed as mentioned above in scrutiny comment 1(i).
- e) Annex-3-The CEC approval letter for permissible annual production should also be enclosed.
- f) Annex-11-The updated List of Board of Directors to be also enclosed as per above scrutiny comment no 2(ii).
- g) Annex-8- The combined consent orders no AW-305707 dated 04.04.2018 to be also enclosed.
- h) Annex-10-The Memorandum of association to be also included along with the Certificate of Registration of the Company.
- i) Annex-12- The photo identity card with address proof of Qualified persons to be also enclosed.
- j) The Litho-log and chemical analysis details of all the previous drilled 101 boreholes as per Form-J format of MCDR 2017 may be enclosed as mentioned above in scrutiny comment no 8(ii).
- k) Annex-14-The Chemical & Mineralogical Analysis report of the previous drilled exploratory boreholes to be enclosed as mentioned above in scrutiny comment no 8(c). The NABL accreditation certificate of the lab to be also enclosed and reference to be given under this Para.
- l) The NABL certification of the laboratory along with the scope of test works for the lab, which includes Bulk density testing has to be enclosed as Annexure and reference to be given under this Para as mentioned above in scrutiny comment no 8 (c).
- m) The Mineral Processing flow sheet (Crushing & Screening) to be enclosed.
- n) The copies of Bank Guarantee to be submitted as per above scrutiny comment no 34.
- o) The year-wise detailed production and development calculation sheet to be enclosed.
- p) Copy of all violation letters issued by Indian Bureau of Mines or statutory obligations issued by any other authority during last approved mining plan period(Period 2018-19 to 2021-22). The respective Compliance Letters to be also enclosed.
- 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 Part-B Annexures in text. All the annexures should be legible.**