



भारत सरकार GOVERNMENT OF INDIA
खान मंत्रालय MINISTRY OF MINES
भारतीय खान ब्यूरो INDIAN BUREAU OF MINES
क्षेत्रीय खान नियंत्रक के कार्यालय
OFFICE OF THE REGIONAL CONTROLLER OF MINES



BY EMAIL ONLY
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Plot No.149, Pokhariput
BHUBANESWAR-751020

No. RMP/A/26-ORI/BHU/2021-22

Date: 26.10.2021

To

Shri K. C. Pradhan,
Plot No. 162, Road No. 8, Unit-IX,
Bhubaneswar-751 022,
E-mail : sp@kcp.in
kcpradhan@kcp.in

Sub: Approval of Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) of Nayagarh Iron Ore Mine, over an area of 24.570 ha. in Keonjhar district of Odisha State, submitted by Sh. K C Pradhan under Rule 17(2) of MCR, 2016.

Ref: - i) Your letter No. Nayagarh/KCP/2021-22 dated 11.10.2021 received through e-mail on 11.10.2021.
ii) This office letter of even no. dated 12.10.2021.
iii) This office letter of even no. dated 12.10.2021 addressed to Director of Mines, Government of Odisha copy endorsed to you.

Sir,

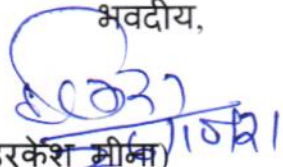
This has reference to the letter cited above on the subject. The draft Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on earlier site inspection carried out on 06.10.2021 by Shri Rajani Kanta Rautaray, Asst. Mining Engineer. The deficiencies observed are enclosed herewith as Annexure I.

You are advised to carry out the necessary modifications in the draft Review of Mining Plan in the light of the contents vide Annexure I and submit:-

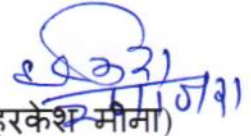
- (i) Three (3) fair/firm bound copies of text in A4 size printable paper and plate/plan in hard copy. The consents and certificates by the Lease holders/Qualified Person and copy of Bank Guarantee / Financial assurance under Rule 27 of MCDR 2017 shall be attached in hard copy of document.
- (ii) The soft copies of the document shall be digitally signed by the Qualified Persons and Nominated owner. The text of document should be in excel (.xls) and word format. The plates/plans are to be submitted in .kml/.kmz/.shp format. A few sections may be submitted in .pdf format as indicated in the CCOM Circular 1/2021. All the annexures shall be submitted in soft copy.

The aforesaid final copies of document **will be submitted within 15 (Fifteen) days from the date of issue of this letter**, for further necessary action.

The Point-wise clarifications and the manner in which the deficiencies are attended should invariably be given while forwarding the final copies of the Review of Mining Plan. It may be noted that **no extension of time will be entertained in this regard and the Review of Mining Plan will be considered for rejection if not submitted within above due date.** It may also be noted that if the deficiencies are not attended completely, the submission would be liable for rejection without further correspondence.

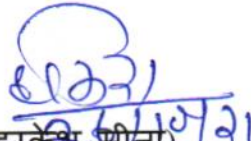
भवदीय,

(हरकेश मीमा)
क्षेत्रीय खान नियंत्रक

Copy for kind information and further necessary action to Sh. Karak Suchita Mohanty, Plot No. 162, Road No. 8, Unit-IX, Bhubaneswar - 751 022. E-mail : ks.mohanty@kcp.in


(हरकेश मीमा)
क्षेत्रीय खान नियंत्रक

N.O.O:

Copy for kind information to the Controller of Mines (EZ), Indian Bureau of Mines, CP-13, Sector V, Salt Lake City, Kolkatta- 700 091.


(हरकेश मीमा)
क्षेत्रीय खान नियंत्रक

Scrutiny comments in respect of Review of Mining Plan with Progressive Mine Closure Plan of Navagarh Iron Ore Mine of Sh. K C Pradhan over an area 24.570 Hectares in District Keonjhar, Odisha State submitted under rule 17(2) of MCR 2016 & rule 23 of MCDR 2017.

1. Certificate from qualified persons should be signed digitally by both the qualified persons. Further, the final soft copy of all the document shall be digitally signed by the Qualified Person and Nominated Owner.
2. **Chapter 1: General Information:**
 - a) Para 1.1.1: The name of the mining lease/name of associate mineral if any should be given under para 1.1. The details of extension of lease period for 50 years should be given under para 1.1.1 after adding a row and copy of this order should also be mentioned below this row.
 - b) Para 1.2: The different land type summary should also be given below the para 1.2 Land ownership details.
 - c) Para 1.3.1: The detail of mining plan/modified mining plan/review of mining plan along with the proposal period as per the format should be furnished correctly.
 - d) Para 1.3.4.2: The details of Consent to establish and Consent to Operate should be given in this para along with relevant annexure nos.
 - e) Para 1.3.4.4 : The details of land acquisition has been left blank and should be furnished.
 - f) Para 1.3.7: Degree & experience certificate of qualified person Sh. Karak Suchita Mohanty and Sh. Manas Kumar Sahu have not been enclosed. PAN number has also not been mentioned.
3. **Chapter 2: Geology & Exploration:**
 - a) Para 2.2.1.1.3: Correct annexure no. should be mentioned below this table.
 - b) Details in 2.1.4.7: Extent of Mineralization, 2.1.4.8: Deposit Type (as per MEMC Rule) 2.2.1.2: Airborne Geophysical Survey & Pitting & Trenching are left blank, hence should be clarified and mentioned.
 - c) Summary of the previous exploration (before last plan period) in chapter 2.2.2 should be mentioned.
 - d) Most of the sub-chapter have not been described in chapter 2.2.5: i.e. Reserve / Resource Estimation Method and the same should be clarified.
 - e) There is variation in mineral reserve in UNFC table and the same needs to be clarified.
 - a) Para 2.2.4.2: In the table, level of exploration should be mentioned G1 or G2. Further in the calculation of resources all the resources should be calculated as discussed in the field.
 - b) Para 2.2.4.11: UNFC Code of Blocked Resources should be corrected. Further Blocked resource calculation comes under heading Resource calculation.
 - c) Para 2.2.6: The proposal of exploration should be given during the first year i.e. 2022-23 only to convert entire area under G1 level as per norms of MEMC Rules 2015. A note should also be given below this table that bore holes will be drilled till the depth of mineralization.
 - d) Para 2.2.5: In this para a table should also be given that how much area will be covered or has already been covered under G1 level by this proposal of exploration.
 - e) All blank left rows/columns should be clarified clearly.
4. **Chapter 3: MINERAL BENEFICIATION / PROCESSING**
 - a) Details are not mentioned in sub-chapter 3.7: Overall Product Quality (Dry cum Wet Processing) and the same should be mentioned.
 - b) Proper information should be given in 3.8: Disposal Method for tailing/ rejects.
 - c) Annexure Number should be mentioned in 3.10: Flow sheets and charts and the should be followed in entire documents while preparing the final copy.
5. **Chapter 4: Mining Operations:**
 - a) Existing method of mining should be selected in the format in 4.1.1 and reasons for changes in proposed method of mining if any should be described clearly.
 - b) Para 4.2.2.2: The location of Advancement should be precisely matched with respective year wise production and development plan.
 - c) All Proposal year in **4.3.2: INSITU MINING has been mentioned as 'Year 1'** and the needs to be corrected. Also, the actual proposed financial year may be mentioned in bracket in word file while preparation of the final copy of the document.
 - d) Para 4.3.2: OB quantity may be rechecked & corrected.
 - e) Location of dump is to be given.

- f) Para 4.4: Machine calculations in 4.4.2: Shovel / Excavator Requirement & explosive requirement calculations should be revised as per standard parameters which may also be mentioned.
- g) Para 4.6: Man Power deployment should be reviewed.
6. **Chapter 5: Sustainable Mining:**
- a) Para 5.2: Separate form for each year i.e. 2022-23 to 2026-27 should be given as per guideline.
- b) Para 5.3: Under this para details should be given for the next five years.
7. **Chapter 6: Progressive Mine Closure Plan:**
- a) Para 6.1: Area in Land status and in FA table given in chapter 7 and in FA Plan should be reconciled.
- b) Para 6.2.2.2.1: Fencing proposal for plantation should be given year wise.
- c) Retaining wall and garland drain were proposed in last approved modified mining plan, but no proposal has been made in the submitted review of mining plan without achieving the earlier target. Please clarify.
- d) Para 6.2.3.2: The Proposed location of plantation should be matched with respective plates.
8. **Chapter 7: Financial Assurance/Performance Security:**
- a) Para 7.1: Separate form for each year should be given for next five years.
- b) Para 7.2: Copy of Bank Guarantee/Performance security should be uploaded and annexed as Annexure. Hence the financial assurance/Performance security in form of Bank Guarantee as per MCDR 2017 should be submitted at the time of fair copies submission coterminous with review of mining plan period & copy of same should be enclosed as annexure in fair copies of Review of mining plan.
9. **Chapter 8: Review of Previous Proposal:**
- a) Para 8.1.1: Some deviation observed in the table from previous proposal but no reason for deviation has been given in the table.
- b) Para 8.1.2: The details of SDF & CSR expenditures for last plan period has not been given.
- c) Para 8.3: No details furnished in this para. The details should be matched with star rating templates.
10. **Annexures:**
- a) Bench wise/ RL wise calculation of proposed production during the next five years should be enclosed in annexure.
- b) Feasibility report should be enclosed & it should be prepared as per MEMC Rules 2015.
- c) Latest Mineral analysis report from NABL Lab should be enclosed.
- d) Few photographs showing the land use of the lease area & environment status of the area should be enclosed.
11. All text, annexures & plates should be attested by the qualified person as well as by the nominated owner for their authenticity.
12. As per the Hon'ble Supreme court of India order dated 08/01/2020, re-grassing of mine out area to be carried out. Accordingly, proposal may be furnished for restoration/reclamation/re-grassing of mined out area.
13. A CD covering the entire document, annexures (in pdf format) and plates as per guidelines at the time of final submission. An undertaking in this regards by the qualified persons that CD contains same documents, annexures & plates as submitted by hard copy of document should be given.
14. All columns and rows should be filled factually, nothing should be left blank in the document.
- Plates**
15. Authentic georeferenced cadastral lease plan shall be the basis for the preparation of all the plans and sections. There should not be any deviations in all the plans and sections with respect to configuration given in the lease plan.
16. Precise superimposition of authentic georeferenced cadastral lease plan is to be carried out before preparation of all the plans.
17. All the plates should be prepared in UTM grid instead of local grid. Necessary correction to be carried in plates & at relevant places in text.
18. Key Plan has not been enclosed. It should be prepared as per rule 32(5) (a) of MCDR 2017.

19. Financial Area Assurance Plan in support of calculation of FA area under Rule 27 of MCDR 2017 has not been enclosed. The same should be shown separate yearwise data as per chapter 7 in text part.
20. **Plate No. 2 (Surface Plan)**
 - a) It should be prepared as per the rule 32(1)(a) of MCDR, 2017 showing all the features indicated under rule. In .KML/.KMZ/.SHP format the features should also be shown as per guideline in this regard.
 - b) The drilled bore holes have not been shown completely.
 - c) The existing plantation has not been shown on plan & not indexed.
21. **Plate No. 3, 4a & 4b (Surface Geological Plan & Geological sections)**
 - a) It should be prepared as per the rule 32(1)(b) of MCDR, 2017 showing all the features indicated under rule. In .KML/.KMZ/.SHP format the features should also be shown as per guideline in this regard.
 - b) The drilled bore holes have not been shown completely. Further all proposed bore holes if any, have not been marked on plan. Proposed bore holes should be revised as per scrutiny comments of geology chapter if so require.
 - c) The areas under G1 & G2 have not been marked as per the colour shown in index.
 - d) On perusal of geological sections, it is observed that resources under 211 have been marked on all the sections whereas on the plan the area shown under G1 & G2 level.
 - e) The lithology, bore holes & surface features shown on the plan should be precisely matched with respective sections. Each and every section should be precisely rechecked & corrected.
22. The green Bore holes shown on all the sections but not indexed.
23. **Plate No. 5(a) to 5 (e) & 6 (Year wise production & development plan and development sections)**
 - a) All the applicable correction should be carried out as per surface plan comments.
 - b) In .KML/.KMZ/.SHP format the features should also be shown as per guideline in this regard.
 - c) The pit wise, bench wise, RL wise, location of proposed working, plantation location etc. shown in text should be matched with respective year wise production & development plan.
 - d) Year wise sections should be precisely matched with proposed development plan.
24. **Plate No. 7 & 8 (Progressive Mine Closure Plan & Progressive Mine Closure Sections)**
 - a) Necessary correction to be made as per above scrutiny comments applicable to other relevant plates.
 - b) In .KML/.KMZ/.SHP format the features should also be shown as per guideline in this regard.
 - c) All the reclamation & rehabilitation activities shown on the text should be marked on Progressive mine closure plan on yearly basis.
 - d) Year wise fencing along the proposed plantation should also be marked on plan.
 - e) Inferred mineral resources marked on section which is not matching with Geological plan.
 - f) Necessary correction on section is to be carried out as per applicable correction on year wise sections.
25. **Plate No. 11 (Environment Plan)**
 - a) It should be prepared as per the rule 32(5)(b) of MCDR, 2017 showing all the features indicated under rule.
 - b) Necessary correction to be made as per applicable scrutiny comments of Surface Plan & surface geological plan.
 - c) In .KML/.KMZ/.SHP format the features should also be shown as per guideline in this regard.
 - d) Existing plantation has not been marked on plan.

At the final stage submission of the Mining Plan all the plates/plans are to be submitted in the .kml/.kmz/.shp format. A few sections may be submitted in .pdf format as indicated in the CCOM Circular 1/2021.
