



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



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No. MP/A/23-ORI/BHU/2021-22

Date: 17.01.2022

To

The Director of Mines
Heads of Department Building
Govt. of Odisha
Bhubaneswar-751 001, Odisha

Sub: Approval of Mining Plan of Unchabali Iron & Manganese Block along with Progressive Mine Closure Plan (PMCP), over an area of 80.533 ha in Keonjhar district of Odisha State, submitted by Government of Odisha under Rule 16 of MCR, 2016.

Ref: - i) Your letter No. 10289 dated 28.12.2021 received on 03.01.2022.
ii) This office letter of even no. dated 03.01.2022.

Sir,

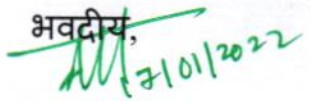
This has reference to the letter cited above on the subject. The draft Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on earlier site inspection carried out on 11.01.2022 by Shri Kewal Krishan, Regional Mining Geologist and Shri Dayanand Upadhyay, Senior Assistant Controller of Mines. The deficiencies observed are enclosed herewith as Annexure-I.

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

- (i) Three (3) 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 shall be attached in hard copy of document.
- (ii) Two (2) soft copies of the document in USB Pendrive. The soft copies of the document shall be digitally signed by the Qualified Person . The text of document should be in word format. The plates/plans are to be submitted in .kml/.kmz/.shp and .dwg format . All the annexures shall be submitted in soft copy.

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

The para-wise clarifications and the manner in which the deficiencies are attended should invariably be given while forwarding the final copies of the Mining Plan. It may be noted that no extension of time in this regard will be entertained and the 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,

(बाबुलाल गुर्जर)
क्षेत्रीय खान नियंत्रक

Copy for kind information and further necessary action Shri A K Samantray and Shri S C Nayak, Qualified Person, Email-aksamantray@odishamining.in, mcp1762005@gmail.com

(बाबुलाल गुर्जर)
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.

(बाबुलाल गुर्जर)
क्षेत्रीय खान नियंत्रक

Scrutiny comments on examination Mining Plan in respect of Unchabali Iron and Mn Block , over an area of 80.553 ha Koenjhar District , Odisha , of M/s. Govt. of Odisha , after the site inspection on 11/1/2022..

Introduction

1. The block details is to be furnished on cover page as per guidelines issued by Ministry of Mines vide letter no.16/4/2020-M.VI, dated 03/06/2021. The words “Mining Plan for Embedded Clearance” should be replaced with “Mining Plan for Pre-Embedded Clearance” in all places of the text.
2. As per guidelines issued by Ministry of Mines vide letter no.16/4/2020-M.VI, dated 03/06/2021, Para-7(ii) states that “The State Government may set up a Project Monitoring Unit (PMU) to complete the preparatory work for obtaining the requisite clearances/approvals and related work. **The PMU will become the applicant for all the clearances required to start the mining operations**”. However in the text the name of applicant as furnished is Government of Odisha and consent letter/undertaking/certificate is signed by Director of Mines. It may be clarified.
3. In introduction chapter, the rule quoted for preparation of mining plan is not correct. It is to be simply furnished that the mining plan has been prepared under guidelines issued by Ministry of Mines vide letter no.16/4/2020-M.VI, dated 03/06/2021.
4. Page no.-5, under Para mine location details, the toposheet number is not correctly furnished. Under mine location details on page no 7, the boundary pillar co-ordinates should be furnished in the form of an excel file also.
5. Under block details on page no 3 , the total area of the block is not matching. Mining plan submission criteria details on page no 5 are to be mentioned as per the format only.
6. A format of summary at glance needs to be furnished and the copy of the same is enclosed as annexure. The final soft copy of the document should be digitally signed by QP and consent letter by applicant.

Geology and Exploration

7. Under heading topography, type of terrain is to be described with reference to the block area also.
8. Under local geology thickness of various litho units (minimum and maximum) as encountered in the bore holes drilled are to be furnished.
9. Lithology, petrographic & mineralogical description, associated and indicated mineral is not described properly. Need correction.
10. Mode of occurrence, control of mineralization and extent of weathering is not described properly.
11. In the drilling table, year of drilling and nomenclature/id of boreholes as per the geological report is to be mentioned.
12. Area under different level of exploration is not furnished correctly in the table on page no18. Need correction at all the relevant places of the document.
13. Reserves/resources estimation, methodology adapted for estimation is to be elaborated in detail by mentioning the various factors considered. Need correction.
14. On page no 26, it is mentioned that 10% of the resources are considered as block resources. The same is to be modified. It should be as per plan and sections calculation only . Need correction at all the relevant places of the document.
15. Resource estimation table on page no 27 &28, the cross-sectional area is not correct ie section 100N, in case of Manganese ore calculation. It is also noticed that the area following outside the lease boundary has been considered in the sectional area ie section 50N, 100N, 150N etc. The same is not correct. Hence a fresh estimation of resources is to be done. Need

correction at all the relevant place of the document accordingly. Reserve/resources estimated in geological report are exaggerated, needs thorough checking.

16. . It is noticed that there are old pits in the block area. The samples from these are to be drawn and analysed according delineation of area, whether mineralized/ non-mineralized is to be done. Need correction accordingly at all the relevant places of the document. Pit dimensions not furnished properly on page no 30
17. Copy of Bulk density report and recovery test report from NABL is to be attached with the document.
18. In view of point no.-15, as mentioned above the entire Geological report is to be revised and submitted along with document as a fresh vetted by State Government. The said report should be prepared as per MEMC amendment rules 2021.

MINING OPERATIONS

19. Page no.30, under Para existing inventory, the dimension of pits are not correctly furnished. Page no-31, in waste dump location the UTM grid should be furnished in place of local grid.
20. Page no.32, in proposed method of mining, the justification of site selection is to be furnished. It is observed that the existing pits are not analysed by pit sampling for further establishing the reserve/ resources and no other data has been enclosed.
21. Page no.-33, operation parameters and bench parameters have not been furnished. In the table, number of benches of OB as furnished is not matched with the development plan and sections. It is to be re-checked and corrected.
22. Page no 34, in part 2, depth of water is not correctly furnished. It is to be re-checked and corrected.
23. Page no.-34, part-1, in year wise development, the calculation of OB of Mahaparbat quarry is not furnished. The calculation of OB of Magazine pit is also not justifiable with reference to development plan and sections.
24. Page no.-35 & 36, part-2, year wise the OB to ore ratio is not correctly furnished. The location of advancement should be furnished in UTM grid in place of local grid.
25. As suggested under Geology chapter, the reserves/resources are to be re-estimated hence the year-wise development proposal of Iron ore and manganese are to be revised at all the relevant places of the document..
26. Page no.-40, Machine calculation and machine requirement are not correctly furnished. The formula applied for Shovel/ excavator calculation is also not correct and not as per format.

Rehabilitation

27. Page no 47, area shown under existing status of land are not correctly furnished. It is to be rechecked from surface plan and corrected. On page no 48, year-wise preparation for ground water recharging are to be mentioned on the table.
28. On page no 57 , welfare and development program table in case of drinking water is to be furnished correctly. Year-wise details on support to transport service & Infrastructure, on page no 58 are to be furnished on the table.
29. The complete Socio-Economic aspect part is to be revised keeping in view the year –wise CSR initiative development proposed programs..

PROGRESSIVE MINE CLOSURE PLAN

30. On page no 61 , in the table on present status of pre-mining use of area is to be rechecked and revised as per the plan,
31. The Environment monitoring stations for air, water noise etc are to be proposed in core and buffer as per MOEF . The same are to be marked on the Environment plan also.
32. Ten year time series data in case of climate and meteorology is to be furnished in case of temperature , relative humidity and average rainfall.

ANNEXURES

33. Copy of letter from Govt. of Odisha regarding PMU from State government for this purpose may be enclosed.
34. Legitimate copy of Geological Report from state government.
35. All the lithologs with chemical analysis of all the exploration work carried out till date should be submitted. The bulk density test report, recovery report etc are to be enclosed.
36. Calculation of insitu tentative excavation year wise considering the cross-sections, Bench RL etc should be furnished.

PLANS AND SECTIONS

37. The precise area map/lease plan/DGPS plan should authenticated by the State Govt. needs to be submitted.
38. All the plans should be submitted as hard copies along with their soft copies in KML/KMZ/SHP file (Georeferenced) , except sections in Pdf/.dwg format . All plates are to be submitted in soft copy having separate file with proper co-ordinates system.
39. Key Plan: Grid Lines are to be shown properly with co-ordinates . scale shown on the plan is to be corrected. The key plan should incorporate all features as mentioned Rule 32 (5)(a) of MCDR 2017.
40. Surface plan: All the features such as lease boundary symbol etc have not been shown properly in index and on the map. The surface plan is to be prepared as per rule 32(1)(a) of MCDR 2017.
41. Geological Plan and Sections: area under G1/G2/G3 is to be shown. Explored and unexplored area is to be shown . Dip and strike is to be marked on the plan. Index and lease boundary are to be shown properly. Boreholes nomenclature should uniform on plan and in text part.. Need correction.
42. Geological sections: the cross-sectional area is not correct ie section 100N, in case of Manganese . Area following outside the lease boundary has been considered in the sectional area ie section 50N , 100N, 150N etc. The same is not correct. Lithology shown on section no 1100 N is not matching with borehole analysis. Lease boundary and safety zone are to be shown properly. UNFC codes are to be furnished correctly. Scale of the cross section ie vertical and horizontal should be same. All the cross- sections are to be rechecked/ plotted again accordingly.
43. Development plan & Section: Proposed development of benches of each year needs to be revised based on the re -estimation of reserves/resources . UPL is to be revised. The layout of the haul road for excavation proposal should be properly shown.
44. Environment plan: Environment monitoring stations are to be marked properly. . The Environment Plan to prepared as per the provision as laid down rule 32 (5) (b) of MCDR'2017.
45. Financial Assurance Plan; Area put to use under different activities shown on plan is not matching with the text. Need correction.
46. At glance information before chapter-1 of document as given below may be provided.

Q
17.01.22

Keerthi/aw
17/1/22

AT A GLANCE INFORMATION

Name of the Applicant /lessee	
IBM Registration no	
Address of Applicant	
Name of Mine	
Minecode	
Lease area in hecets.	
Forest area	
Name of Mineral	
Lease period from to	
Plan proposal period-	
Mineral Reserve (111& 112) in tonnes	
Mineral Resources (211, 221,222, 331, 332, 333&334) in tonnes	
Production proposal (1 st yr) in tonnes 2022-23 (Mineral Name)	
Production proposal (2 nd yr) in tonnes2023-24	
Production proposal (3 rd yr) in tonnes2024-25	
Production proposal (4 th yr in tonnes2025-26	
Production proposal (5 th yr) in tonnes2026-27 (include only saleble/ usable & sub grade mineral)	
OB/Waste handling proposal 1 st yr CUM	
OB/Waste handling proposal 2nd yr CUM	
OB/Waste handling proposal 3rd yr CUM	
OB/Waste handling proposal 4th yr CUM	
OB/Waste handling proposal 5th yr CUM	
Present EC permission in tonnes(Mineral or ROM)	
Plantation proposal in five years in numbers	
Plantation area proposal in five year(ha).	
Back filling proposal in hecets in five years	
Check Dams numbers in five year	
Garland drain in meters five years	
Settling ponds (Numbers)	
Area put to use at end of five year in ha	

<i>Bank Guarantee Amount Rs</i>	
<i>Validity of BG upto</i>	
<i>Any other important information</i>	
<i>Percentage of revenue sharing bid in case of auction grant of block</i>	
<i>Amount of performance security and details if any</i>	