



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. MPM/A/15-ORI/BHU/2021-22

Date: 27.10.2021

To

The Managing Director & Nominated Owner,
M/s Odisha Mining Corporation Ltd
OMC House, Bhubaneswar -751001
info@orissamining.com, planningcellomc@gmail.com

Sub: Approval of modification of Mining Plan of Jilling-Langalota Iron Ore Mine along with Progressive Mine Closure Plan (PMCP), over an area of 456.037 ha (As per DGPS)/ 456.100 ha (As per RoR) in Keonjhar district of Odisha State, submitted by M/s Odisha Mining Corporation Ltd under Rule 17(3) of MCR, 2016.

Ref: - i) Your letter No. 14634/OMC/PMC/2021 dated 27.09.2021 received on 05.10.2021.
ii) This office letter of even no. dated 05.10.2021.
iii) This office letter of even no. dated 05.10.2021 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 modification of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on earlier site inspection carried out on 23.10.2021 by Shri Dayanand Upadhyay, Senior Assistant Controller of Mines & Shri Kewal Krishan, Regional Mining Geologist. The deficiencies observed are enclosed herewith as Annexure-I.

You are advised to carry out the necessary modifications in the draft modification of 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 and copy of bank Guarantee 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 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.
- (iii) Financial assurance under Rule 27 of MCDR 2017.

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 modification of Mining Plan. It may be noted that no extension of time in this regard will be entertained and the modification 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
६०३२
(हरकेश मीना) ०२

क्षेत्रीय खान नियंत्रक

Copy for kind information and further necessary action to Shri A K Samantray, Qualified Person, aksamantray@odishamining.in

(हरकेश मीना)

क्षेत्रीय खान नियंत्रक

Scrutiny comments of Modification of Mining Plan of Jilling Langalotta Iron ore Mine, Area-456.037ha, Dist- Keonjhar of Odisha Mining Corporation Ltd. submitted under Rule 17(3) of MCR, 2016

General

1. On cover page address of the lessee with email, phone no. should be furnished. The email and phone no. of qualified persons should also be furnished on cover page. The proposed period of the modified mining plan is not correctly furnished. It is to be corrected on cover page as well as at all the relevant places of the document.
2. The document should be prepared as per the mining plan template format provided in CCOM circular No.01/2021 dated 07.06.2021. No alteration/deletion/change in format of the mining plan template is allowed. Any additional information may be submitted as annexure only if required.
3. All the information in the various table columns of different chapters as per the prescribed format in the template should be furnished. No column/rows should be left blank. If not applicable, it was written as not applicable.
4. The final soft copies of the document shall be digitally signed by the Qualified Person and Nominated owner.
5. The document should preferably be submitted in excel(.xls)/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.
6. The final copies of the text document to be submitted in 3 (three) hard bound copies in A4 size printable paper. The consents and certificates by the Lease holders/Qualified Person and shall be attached in hard copy of document. Three hard bound copies of plates/plans are also to be submitted. The plates/plans are to be output of AutoCAD software.
7. List of plates and annexures should be properly indexed with page nos. and in case of plates the scale should also be mentioned.

CHAPTER-1: GENERAL INFORMATION

8. Para-1.1.2, proposed period of modification of review of mining plan is to be corrected and also all the relevant places of the document.
9. Para-1.3.4.4, in land acquisition details the amount paid (INR) is not correctly furnished.
10. Para-1.3.3, transfer of lease area subsequent to grant is to be mentioned as per rule and term and condition as imposed by State Govt.
11. Para-1.3.7, the experience of qualified person should be clearly stated in supervisory capacity in the field of mining as per provision of rule 15(b) of Minerals (Other than Atomic and Hydro Carbons of Energy Minerals) Concession Rules, 2016.

CHAPTER-2: GEOLOGY AND EXPLORATION:

12. Para 2.1.1: the details of drainage pattern, Order of Stream and Minimum Distance of Stream from Lease Area (m) are to be furnished under different column.
13. Para -2.1.4.2, the structure of the area is to be described with reference to the lease area. The strike of the formation is to be furnished correctly.
14. Para- 2.1.4.3, thickness of various litho units as encountered in the bore holes/ lease area is to be furnished i.e minimum and maximum thickness.
15. Para- 2.1.4.8, the strike/trend of the ore body is to be furnished correctly.
16. Para- 2.2.1.13, the bulk density as furnished in table should be justified with documentary proof with their method. The bulk density of density of OB/waste has not been furnished in the table.
17. Para- 2.2.1.14, the area cover under various level of exploration is to be mentioned.

18. Para- 2.2.2.1, in geological mapping the scale of mapping is not furnished correctly. It is to be corrected.
19. Para- 2.2.2.6, area covered under trenching is not furnished correctly.
20. Para- 2.2.2.9, the details of sample are to be furnished correctly. Para- 2.2.2.10, in chemical analysis of various radicals has not been furnished.
21. Para- 2.2.3, in ore body geometry and grade, general strike trend and dip of the mineral has not been furnished.
22. Para-2.2.4.1, the cut- off grade of the mine should be clearly mentioned. Similarly the influence of the ore body is to be mentioned as considered in reserve/resource estimation. Same is to be corrected at all relevant places of the document.
23. Para-2.2.4.2, the resource estimation should be revised as discussed during field grade wise i.e 45 to 55% Fe and +55% Fe at all the relevant places of the document. The depth in meter, influence of bore holes and level of exploration has not been correctly furnished in prescribed table.
24. Para-2.2.4.3 to 2.2.4.10, all the parameters are to be elaborated in details as per Minerals Evidence of Mineral Contents Rules 2015.
25. Para-2.2.4.13, the reserve/resources estimation date is not updated. An updated date based on recent survey should be mentioned and all figures should be corrected accordingly.
26. Para-2.2.6.5.1, proposed year of exploration is not correctly furnished. The proposed Bore Holes should be furnished in light of provision of Rule 12(4) of MCDR, 2017 to prove the lease area in G1 level.

Chapter-3: Mineral Beneficiation:

27. Para-3.2, Complete Chemical Analysis of the ROM Ore/Mineral is to be furnished only based on the mineral beneficiation/processing report. Copy of report is to be enclosed with document as an aneexure.
28. Para-3.3.1 & 3.3.2, the range of product size are to be furnished. Para-3.5.1, in screening and classification table has not been furnished correctly and some of item has left blank.
29. Para-3.9 & 3.10, Overall Water Requirement is to be furnished and the flow sheet of dry screen plant respectively are to be attached.

Chapter-4: Mining Operation:

30. It is observed that under various para, the items in different prescribed table are not mentioned. All figures should be furnished in prescribed table with their nomenclature.
31. Para-4.1.1: Existing features of Method of Mining should be described in brief as in prescribed table.
32. Para-4.1.2: Proposed features of Method of Mining should be described in brief in prescribed table. Reason of proposed changes should be furnished as the instant document is submitted for modification of mining plan.
33. Para-4.2.1.1: The details of existing pits dimension are not correctly furnished Para-4.2.1.2.1: In dump details, the total quantity of different type of dumps has not been furnished.
34. Para-4.2.1.3: under the details of stabilized dumps no any information has been furnished. All the column/row should be furnished with desired information.
35. Para-4.2.2.1, all the bench parameters are to be revised as per the modification proposal. Proposed years should also be revised and specific years should also be mentioned as discussed at all relevant places of the document.
36. Para-4.2.2.2, recovery as furnished should be justified with documentary evidence. In column of associated mineral information is to be furnished. The top soil generation has to be revised in light of proposed modification. Page no.-136, In quarry wise table the cumulative generation of OB/waste in cu.m has not been furnished correctly.

37. Para-4.3: In Material Handling Summary, the annexures are enclosed and marked with annexure number and reason of not applicable should be furnished.
38. Para-4.3.1, proposal years are to be mentioned correctly as discussed during field visit. Para-4.3.4, the instant document is for modification therefore the starting year will be 2021-21 i.e 2nd year.
39. Para-4.4: In Machine Calculation, the parameters of total handling (Ore and OB), bucket capacity, fill factors, swell factor, idle time and standby etc are to be considered.
40. Para-4.5.1: Blasting & Explosive Requirement in Waste/Development, the powder factor is not correctly furnished. Para-4.5.2: Blasting & Explosive Requirement in Mineral / Ore, the type of explosive and type of explosive is to be used are not correctly furnished. The figures furnished in table are also miss-matched. It is to be re-checked and corrected.
41. Para-4.7: In Waste Management, the information asked in different tables are to be furnished and location should be marked with co-ordinates.

Chapter 5: SUSTAINABLE MINING:

42. Para-5.2: In year wise CSR initiatives, the specific year wise proposal should be furnished. At the places where proposal is not furnished should be marked nil in place of left blank.

Chapter 6: PROGRESSIVE MINE CLOSURE PLAN

43. Para 6.1: The Status of Land is not correctly furnished in prescribed table. It is to be re-checked and corrected.
44. All the prescribed tables are to be furnished with desired information otherwise it is clearly mentioned as not applicable.
45. Para-6.2.1: In year wise backfilling, the estimated expenditure is not mentioned. The top and bottom RL are to be re-checked from year wise development plan and sections
46. Para 6.2.2.2 & 6.2.2.3: Retaining wall and garland drains proposals are to be revised.
47. Para-6.2.11, Land use of lease area at the expiry of lease period (CONCEPTUAL STAGE) are not correctly furnished. It should be furnished in pursuant to the order dated 14.01.2020 passed by MOM, GOI, consequent up on the order dated 08.01.2020 of the Hon'ble Apex Court passed in W.P.(C) No. 114/2014, the lessee shall carryout "re-grassing in mining area after closure of mines".

Chapter 7: FINANCIAL ASSURANCE/ PERFORMANCE SURETY

48. Para-7.1: in year wise table of land use pattern, the area furnished under different heads are also not matched with FA plan. It is to be clarified.
49. Para-7.2: Proposed period is not furnished correctly. Total Area Proposed to be put to use in hect is to be furnished correctly. Para-7.3, Performance Surety table is not furnished. All the tables are to be re-checked and corrected.

CHAPTER-8: REVIEW OF PREVIOUS PROPOSALS

50. In review of previous proposals the reason of deviation under different item has not been furnished. All the tables should be filled with desired information.

CHAPTER-9: IMPACT ASSESSMENT (for fresh grant)

51. The land environment and anticipated impact under prescribed tables have not been discussed.

Annexure

1. Geological report is to be enclosed. .
2. Environmental monitoring reports should be submitted.
3. Copy of surface right granted letter. Surveyor certificate should be enclosed.
4. Any other annexures as referred in the text should be submitted.
5. Calculation of insitu tentative excavation year wise considering the cross-sections, Bench RL etc should be furnished.

6. Experience & Qualification Details of Qualified Person and Certificate from qualified person regarding authenticity of information submitted is to be attached.
7. The content of pre-feasibility report and analysis of economic viability of the project is to be described in detailed as per rule 16 and Part-V of MEMC Rule 2015 and enclosed in annexure. The economic viability of the project should be supported with NPV, IRR, Payback period by cash flow chart with total investment, operational cost etc.
8. Copy of lease deed executed, Copy of MDPA, Copy of Performance Surety, Mineral processing flowsheet with stage wise recovery, Copy of Environment and Forest Clearance, Consent to Establish, Consent to Operate are to be enclosed.

Plates

9. Date of survey should be given on all plans and sections and signature should bear date of signature. All plans and sections should be signed with date by certified Surveyor, Qualified Person, Mine Manager, Mining Engineer and Mining Geologist as per provisions of MCDR, 2017 and MMR, 1961. All plans and sections shall show a scale a scale of the plan at least twenty five centimeters long and suitably subdivided.
10. All plans and sections should be prepared on UTM grid. Copy of Scale relaxation as per provision of MCDR 2017 should be enclosed.
11. All the plans should be submitted as hard copies and also soft copy of all plans and sections in KML/KMZ/SHP should also be submitted which were geo-referenced.
12. Lease Cadastral Plan and Geo referenced Cadastral Plan authenticated by State govt. should be submitted. Progressive Mine closure plan and sections should be submitted.
13. Key Plan: The key plan should incorporate all features as mentioned Rule 32(5) (a) of MCDR 2017. The prominent wind direction to be shown by rose diagram in key plan and other relevant plans. The approach road to the lease area should be shown with Co-ordinates of extremity of lease area. The adjoining mining leases, roads, villages , reserve forest boundary, predominant wind direction, should be prominently shown.
14. Surface Plan: The Surface Plan should be prepared to satisfy the provision as laid down rule 32 (1) (a) of MCDR'2017. All the boundary pillar coordinates to be given in UTM . All the updated boundaries of Waste dump, Mineral reject dumps to be shown on the plan. Surface right area to be shown on the plan. All the features have not been shown in the index.
15. Geological Plan & Section: Geo structural information has not been furnished adequately. The geological plans and sections which were submitted with Geological report should be updated. All the existing and proposed features are to be shown and marked distinctly in geological sections. Area under G1/G2.. should be demarcated and UNFC codes are to be depicted in geological sections correctly as per MEMC rule 2015. Future exploration proposal should be furnished in plan and sections under G1 level of exploration..
16. Development plan & Section: Development plan sections has not updated considering the previous year development. Before backfilling it is to be ensure that the area should be completely exhausted. Backfilling has not been shown in development sections. The backfilling proposal should be shown in different color year wise in plan and sections. The proposed and existing bench mRL to be shown clearly over year wise development plan and sections. Year wise mining plan proposals should be submitted in softy copy in the format of .kml or .shp file along with document.
17. Progressive Mine Closure plan and sections: All revised year wise proposals are to be depicted on the plan and sections.

18. Conceptual plan and sections: Conceptual plan may be prepared considering mineralization as revealed from the borehole logs considering the life of mine as guidelines.
19. Environment plan: The Environment Plan as prepared should satisfy the provision as laid down rule 32 (5) (b) of MCDR'2017. Wind rose diagram should be depicted.
20. Financial Assurance Area Plan: The existing and additional area requirement year wise as furnished in text should be separately hatched on the plan with FA table.

Kewal Krishan
(KEWAL KRISHAN)
RMA

D.
26.10.21
(D. UPADHYAY)
Sr. ACOM