



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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Plot No.149, Pokhariput
BHUBANESWAR-751020

No. MRMP/A/38-ORI/BHU/2021-22

Date: 01.03.2022

To

Shri R L Mohanty, Managing Partner,
M/s M G Mohanty,
5A, Forest Park,
Bhubaneswar-751009

Sub: Approval of modification of Review of Mining Plan of Patabeda Iron Ore Mine along with Progressive Mine Closure Plan (PMCP), over an area of 14.00 ha in Sundargarh district of Odisha State, submitted M/s M G Mohanty under Rule 17(3) of MCR, 2016.

Ref: - i) Your letter No. MGM/CO/2021-22/01-155 dated 17.01.2022 received on 14.02.2022.
ii) This office letter of even no. dated 14.02.2022.

Sir,

This has reference to the letter cited above on the subject. The draft of modification of Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office by Shri Sanjib Kumar Mohapatra, Senior Mining Geologist and Shri Jitendriya Pradhan, Assistant Mining Engineer. The deficiencies observed are enclosed herewith as Annexure- I.

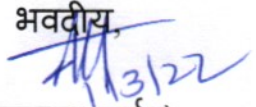
You are advised to carry out the necessary modifications in the draft modification of Review of Mining Plan in the light of the contents vide Annexure I and submit:-

- (i) Three (3) firm bound copies of text in A4 size printable paper, Annexure 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 and .dwg format. All the annexures shall be submitted in soft copy.
- (iii) Financial assurance under Rule 27 of Mineral Conservation and Development (Amendment) Rules, 2021.

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

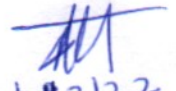

(बाबुलाल गुर्जर)

क्षेत्रीय खान नियंत्रक

Copy for kind information to:-

(i) The Controller of Mines (EZ), Indian Bureau of Mines, CP-13, Sector V, Salt Lake City, Kolkatta- 700 091.

(ii) Shri Chandrabhanu Das, Geo Consultants Pvt. Ltd, 853, Gobind Prasad (Medical Lane), Mahavir Nagar, Laxmisagar, Bhubaneswar - 751006.


1.3122
(बाबुलाल गुर्जर)

क्षेत्रीय खान नियंत्रक

Scrutiny comments of Modification of Review of Mining Plan along with Progressive Mine Closure Plan in respect of Patabeda Iron Ore Mine, over an area of 14.00 Ha. in Koira Tahsil, Sundargarh District of Odisha State of M/s M. G. Mohanty.

PART-A

CHAPTER-1: GENERAL INFORMATION

1. 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.
2. An introduction with a brief history of the mining lease area to be given. A format of summary at glance needs to be furnished, the copy of the same is enclosed as annexure.
3. The details modification plan proposal period along with existing period, E_mail id of the consultant is to be furnished in cover page. The cover page needs to be prepared as per the format enclosed herewith as annexure.
4. Under para 1.1 the details of lease area of (both RoR & DGPS) needs to be furnished, as both are not equal with each other. Further the same needs to be rectified in the entire text and plates of the submitted document wherever is applicable.
5. The information furnished under para 1.1.2: Mining Plan submission Criteria details: the reason for modification need to be furnished with proper justification. The proposal of the approved RoMP viz-a-viz proposed modification of RoMP need to be furnished i.e. exploration, annual production, location of production quarries, location of waste dump etc
6. The information furnished under para 1.2; Land ownership details: The land schedule furnished are not matched as per the prescribed format of mining plan. The same to be rectified and complete information needs to be submitted as per lease deed.

CHAPTER-2: GEOLOGY AND EXPLORATION:

7. The detailed information under para 2.2.1.7.1 i.e. Exploratory drilling; copies of the log sheets of bore holes signed by the geologist are not enclosed. The same needs to be furnished properly.
8. The detailed information under para 2.2.1.9 & 2.2.1.10 are not furnished properly. The details of sample id of the borehole samples need to be reviewed and reproduced properly.
9. The information furnished under para 2.2.1.13 i.e. Method adopted for calculating bulk density needs to be furnished. Analysis report from NABL i.r.o. bulk density study needs to be furnished.
10. The information furnished under para 2.2.1.14. i.e. area covered under exploration is not correct. The same needs to be recast properly.
11. The detailed information under para 2.2.2.7.1 i.e. Exploratory drilling (before last plan period); copies of the log sheets of bore holes are not enclosed. The same needs to be furnished properly.
12. The detailed information under para 2.2.2.9 & 2.2.2.10 are not furnished properly (before last plan period). The details of sample id of the borehole samples need to be reviewed and reproduced properly.
13. The information furnished under para 2.2.1.14. i.e. area covered under exploration is not adequate. The same needs to be furnished properly as per the prescribed table of the template.
14. The information furnished under para 2.2.4.2 i.e. resource calculation table; in all sections the resource has been estimated below the threshold value of iron ore. Hence the resource calculation table needs to be rectified and reproduced properly.

15. The detailed information under para 2.2.4.3 to 2.2.4.10 has not been furnished viz., threshold value and cut off parameters, mining factors, UNFC justification under classification, etc.,. The same needs to be furnished. Proper UNFC codes should be assigned for reserves/resources.
16. The details furnished under para 2.2.4.12, reserve calculation table needs to be reproduced in line to the comments furnished for resource calculation table. The same needs to be rectified & reproduced properly. Accordingly table furnished under 2.2.4.13 needs to be rectified.
17. Proposal for a petrology & mineralogical study of the lease during the modification review of mining plan period needs to be proposed under para 2.2.6.8

CHAPTER-3: MINERAL PROCESSING

18. The information furnished under para 3.2 are needs to be furnished with relevant supporting documents.
19. The information furnished under para 3.9: Overall water requirement of mining and mineral processing: The water balance chart should be submit as annexure.
20. The information furnished under para 3.10; regarding material balance chart/ flow diagram of mineral processing plants is not correct. The same needs to be reproduced as annexure with the document.

CHAPTER-4: MINING OPERATIONS

21. The information under para 4.1.1 & 4.1.2 i.e. existing method/proposed method of mining needs to be furnished as per the prescribed format of the template.
22. The information under para 4.2.1.2 dump details; location of the dump furnished with the document needs to be reviewed and furnished properly.
23. The information under para 4.2.2.1: Bench Parameter: the furnished details of no of benches and max depth of workings are not as per the plan and section. The same needs to be rectified properly.
24. The information under para 4.2.2.2: Year wise opencast Development; tonnage calculation of ROM are not correct. The same to be reviewed and rectified correctly. Accordingly the ore to OB ratio needs to be reviewed. The year wise, section wise calculation of Ore and OB to be submitted in annexure.
25. Under para 4.3.1, the blast vibration study report, bulk density study report and recovery study report and also any other related study reports should be proposed.
26. Under para 4.3.2, the details furnished for insitu mining table are not correct. The entire table needs to be reproduced properly. Accordingly table furnished under para 4.3.4 calculation summary needs to be rectified and reproduced.
27. The details furnished under para 4.4.5.3 capacity of drilling machine to be mentioned.
28. The details furnished under para 4.5. details of type of explosive to be used needs to be furnished properly.
29. Under para 4.7.4: New stack to be proposed for the mineral rejects.
30. The details furnished under Para 4.9: Use of Minerals: complete details needs to be furnished as per the prescribed format.

CHAPTER-5: SUSTAINABLE MINING:

31. Para-5.2: In year wise CSR initiatives, Year wise proposal to be given in all aspects for development of community around the lease area. The cumulative work done / measures taken furnished is to be checked as most of them are left blank in the format.

CHAPTER-6: PROGRESSIVE MINE CLOSURE PLAN

32. Para 6.2.2.2.1, the fencing proposal has not been furnished. The year wise fencing proposal in view of ML boundary, proposed pit etc. are to be proposed. The protective measures i.e. maintenance of retaining wall and garland drain to be proposed.

33. Under para 6.2.3.1 year wise proposals of green belt development needs to be proposed for all the years of the plan period.
34. Para-6.2.11, Land use of lease area at the expiry of lease period (CONCEPTUAL STAGE) 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 SECURITY

35. Financial assurance in the form of Bank Gurantee for the area under utilization needs to be submitted in original and copy of the same needs to be annexed with the document.

CHAPTER-8: REVIEW OF PREVIOUS PROPOSAL

36. The reason for deviation of the earlier proposal needs to be furnished with specified quantity/nos along with proper supporting documents.

CHAPTER-9: IMPACT ASSESSMENT

37. Although this chapter is for fresh grant as per the prescribed format; all the para-wise information needs to be furnished in the text along with supporting documents as required.

PART-B

ANNEXURES TO BE GIVEN

38. Copy of lease grant order from State Govt.
39. All the lithologs with chemical analysis of the all the exploration work carried out till date should be submitted.
40. Copy of financial assurance in the form of Bank guarantee under Rule 27 of Mineral Conservation and Development (Amendment) Rules, 2021.
41. Bulk density study report, water balance chart & flow diagram of crushing/screening plants.
42. Calculation sheet of insitu tentative excavation year wise considering the cross-sections, Bench RL etc. should be furnished.
43. The feasibility report is to be submitted with the content of 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 IRR by cash flow chart with total investment, operational cost, final price offer etc.

PART-C

PLANS AND SECTIONS

44. All the plans and sections needs to be captioned with Modification of review of Mining Plan and period of modification also needs to be furnished.
45. All plans and sections should be signed with date by Qualified Person. All the plans should be submitted as hard copies and also soft copies in KML/KMZ/SHP/.DWG as prescribed in the templates. All the plans and sections are needs to be prepared on UTM grid.
46. Key Plan: Key plan has not been submitted. The key plan should incorporate all features as mentioned Rule 32 5 (a) of MCDR 2017.
47. Surface Plan: (i) contours and existing benches are shown in similar colour codes. (ii) surface right acquired are needs to be shown in off colour code.(iii) outline of OB dumps needs to be shown. (iv) All features shown in the surface plan needs to be properly indexed.
48. Geological Plan & Section: (i) Geological plan needs to be prepared considering the scrutiny point furnished in surface plan. (ii) Litho units need to be shown in distinguishable colour codes. (iii) UNFC codes needs to be furnished in geological sections and level of exploration boundary needs to be shown in geological plan. (iv) Features shown beyond the bore hole limit needs to be marked with question marks.(v) The Geological Plan should be

prepared as per the extant provision as laid down rule 32 (1) (b), (c) and (d) of MCDR'2017.

49. Development plans& Section: (i) The top and bottom RL of proposed benches and proposed dump are to be furnished in development plan.(ii) The proposed haul road along with ramps needs to be shown in all year-wise development plans and sections (iii) The proposed RL of the benches and haul road should be clearly mentioned .(iv) year-wise development plans and sections are to be shown in distinguishable colour codes.
50. Progressive Mine Closure plan and sections: Progressive Mine Closure plan and sections submitted with the draft document need to be prepared to show the status of the mine i.e. pits, dumps infrastructures, void filling if any and protective measure feature within the lease area. Further the plan and section needs to be shown as per comments in PMCP chapter.
51. Conceptual plan and sections: The submitted plan and sections are not correct. The plan and sections should be prepared taking into consideration of the production from in-situ excavations, available reserves and resources describing the excavation, Disposal of waste, backfilling of voids, reclamation and rehabilitation measures etc. at the end of lease period.
52. Financial Assurance Area Plan: The area degraded due to mining and allied activities are to be considered in FA calculation. The FA table needs to be furnished in the plan.

Format for preparation of Mining Plan/Modified Mining Plan/Review of Mining Plan (Open Cast)

COVER PAGE

Mining Plan /Review of Mining Plan / Modifications in Approved Mining Plan of -----
Mine / Deposit over an area of ----- ha submitted under Rule 16(1)*/17(2)*/17(3)* of Minerals (Other
than Atomic and Hydro-Carbons Energy Minerals) Concession Rules, 2016.

Mine/ Deposit Name-	
Mining Lease no-	
MineCode-	
In Villages-	
Tehsil-	
District-	
State-	
Total-Lease area-	
Forest Area-	
Non Forest area-	
Lease period-	
Mineral-	
Proposed category of Mine-	
Mining plan period-	
Working proposal period-	
Applicant/lessee-	
IBM Registration no-	
Address -	
Phone-	
Email-	
Prepared by-	
Qualified Person Name-	
Address-	
Phone-	
Email-	

AT A GLANCE INFORMATION

	AT A GLANCE INFORMATION	
1	<i>Name of the Applicant /lessee</i>	
2	<i>IBM Registration no</i>	
3	<i>Address of Applicant</i>	
4	<i>Name of Mine</i>	
5	<i>Minecode</i>	
6	<i>Lease area in hecets.</i>	
7	<i>Forest area</i>	
8	<i>Name of Mineral</i>	
9	<i>Lease period from to</i>	
10	<i>Plan proposal period-</i>	
11	<i>Mineral Reserve (111& 112) in tonnes</i>	
12	<i>Mineral Resources (211, 221,222, 331, 332, 333&334) in tonnes</i>	
13	<i>Production proposal (1st yr) in tonnes 2022-23 (Mineral Name)</i>	
14	<i>Production proposal (2nd yr) in tonnes2023-24</i>	
15	<i>Production proposal (3rd yr) in tonnes2024-25</i>	
16	<i>Production proposal (4th yr in tonnes2025-26</i>	
17	<i>Production proposal (5th yr) in tonnes2026-27 (include only saleble/ usable & sub grade mineral)</i>	
18	<i>OB/Waste handling proposal 1st yr CUM</i>	
19	<i>OB/Waste handling proposal 2nd yr CUM</i>	
20	<i>OB/Waste handling proposal 3rd yr CUM</i>	
21	<i>OB/Waste handling proposal 4th yr CUM</i>	
22	<i>OB/Waste handling proposal 5th yr CUM</i>	
23	<i>Present EC permission in tonnes (Mineral or ROM)</i>	
24	<i>Plantation proposal in five years in numbers</i>	
25	<i>Plantation area proposal in five year(ha).</i>	
26	<i>Back filling proposal in hecets in five years</i>	
27	<i>Check Dams numbers in five year</i>	

28	<i>Garland drain in meters five years</i>	
29	<i>Settling ponds (Numbers)</i>	
30	<i>Area put to use at end of five year in ha</i>	
31	<i>Bank Guarantee Amount Rs</i>	
32	<i>Validity of BG upto</i>	
33	<i>Any other important information</i>	
34	<i>Percentage of revenue sharing bid in case of auction grant of block</i>	
35	<i>Amount of performance security and details if any</i>	

INTRODUCTION