



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  
Phone: 0674-2352463  
Tele Fax: 0674-2352490  
E-mail: ro.bhubaneshwar@ibm.gov.in  
Plot No.149, Pokhariput  
BHUBANESWAR-751020

No. MRMP/A/37-ORI/BHU/2021-22

Date: 17.02.2022

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 & Mn Mine along with Progressive Mine Closure Plan (PMCP), over an area of 19.425 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/2021-22/01-156 dated 17.01.2022 received on 09.02.2022.  
ii) This office letter of even no. dated 09.02.2022.

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 based on earlier site inspection carried out on 24.09.2021 by Shri Sanjay Kumar Mohapatra, 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~~  
21/2/2022  
(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.

21/2/22  
(बाबुलाल गुर्जर)  
क्षेत्रीय खान नियंत्रक

**Scrutiny comments of Modification to Approved Review of Mining Plan in respect of Patabeda Iron Ore Mine Over an area of 19.425 ha of M/s M G Mohanty submitted under Rule 17 (3) of MCR, 2016**

**General**

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. The Modification plan proposal period along with existing period is to be furnished in cover page.
3. E-mail Id of the consultant to be furnished on the cover page.
4. Before general information an introduction to be furnished incorporating the history of lease details. Further, information to be submitted as per following Format.

Year	Existing proposal as per approved RMP in Tonne	Modification proposed per annum	Remark
2021-22		Not Applicable	
2022-23			
2023-24			
2024-25			
2025-26			

5. Reason of Modification with comparative details with the Approved Review of Mining Plan to be submitted.
6. Before introduction, Mining plan at a glance to be inserted as per format enclosed as Annexure-I.
7. 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.
8. The final soft copies of the document shall be digitally signed by the Qualified Person and Nominated owner.
9. 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.
10. 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 copy of bank Guarantee shall be attached in hard copy of document. Three hard bound copies of plates/plans were also submitted. The plates/plans are to be output of AutoCAD software.
11. 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**

1. Para 1.1: Lease details:- In type it should be furnished as Existing Lease.
2. Para1.1.2: Reason for Modification to be clearly described along with existing and proposed production with proper justification.

3. Para 1.2: Land ownership details: The type of land should be forest land/non-forest land/govt. land/ private land. The same to be rectified.
4. Para 1.3: Supplementary lease deed date to be mentioned by inserting row.
5. Para 1.3.1: The lease was executed on 03.04.1986 where as 1<sup>st</sup> Mining Plan period was provided from 02.04.2006 to 31.03.2011. Reason for may be elaborated.
6. Para 1.3.2: Partial surrendered area to be mention as Nil if no partial surrender carried.
7. Para 1.3.4.1: The proposed capacity of ROM production beyond the EC capacity (548775 Tonnes per annum) which leads a fresh environmental clearance. Therefore it may be mentioned in brief as per rule.

## **CHAPTER-2: GEOLOGY AND EXPLORATION:**

8. The reserve/resources has been reduced on the basis of evidences of new bore hole drilled in 2020-21, which may be described in relevant Para of reserve and resources estimation. The change in mineral reserve/resource in UNFC table of the draft document and the reserve/resource position as per the earlier approved mining plan needs to be clarified and corrected.
9. Para 2.1.4.7: The grade of ore occurred with average grade of the ore body with percentage of lump and fines generated to be furnished.
10. Para 2.2.1.7: Exploratory Drilling: 10 numbers of bore holes has been drilled during the year 2021-22 as mentioned in the draft document log sheets of all bore hole to be attached as Annexure.
11. Para 2.2.1.9: Sampling: Details are not furnished properly. All information needs to be furnished as per the format.
12. Para 2.2.1.9: Chemical Analysis: Details are not furnished properly. All information needs to be furnished as per the format. The details of sample id of the borehole samples need to reviewed and reproduced properly.
13. Para 2.2.1.11: Petrological and Mineralogical study no sample has been drawn for carrying out the study, hence fresh proposal may be proposed.
14. Para 2.2.1.14. i.e. area covered under exploration is not correct. The same needs to be furnished properly.
15. Para 2.2.2.13. Bulk Density: Test report i.r.o. Bulk density needs to be annexed.
16. Para 2.2.2.14. i.e. area covered under exploration is not adequate. The same needs to be furnished properly as per the prescribed table of the template.
17. Para 2.2.4.21 i.e. Resource/Reserve estimation: As the submitted draft document is a modification to the approved RoMP, hence the details of resource/reserve established, depletion thereof needs to be summarized.
18. Para 2.2.4.2 i.e. resource calculation table; in few sections the resource has been estimated below the threshold value of iron ore. Hence the resource calculation table needs to be rectified and furnished properly and calculation should be for only above threshold value iron ore.
19. Para: 2.2.4.13: Reserves and resource as on date to be furnished. The UNFC code furnished for blocked resources is not correct. The same needs to be rectified properly.
20. All the UNFC codes to be furnished in Geological Plan/sections as per MEMC Rule,2015.
21. Para2.2.4.13: Average grade of the Mineral Reserve & Resources to be mentioned.

## **Chapter-3: Mineral Beneficiation:**

22. Para 3.1: Details of Mineral/gangue Mineral / Gangue percentage to be furnished.
23. Para 3.5.1: Average grade of production to be furnished instead of +55 % Fe.
24. Para 3.5.3: Product quality details of lump and fines to be furnished as per the format.
25. Para 3.10: In the flow sheet of Crushing and screening Plant water consumption has not been shown/ indicated.

#### **Chapter-4: Mining Operation:**

26. The profile of benches in development plan not proposed correctly in view of scientific development. Direction of advance may be marked clearly.
27. Benches proposed in development plan are not matching with development sections. In the view of above, year wise tentative excavation also not matched. It may be rechecked and corrected.
28. Para 4.1.2: Reason for proposed method mining to be rectified.
29. Para 4.2.1.2.1 & 4.7.3: Stack Details: The mineral reject and ore stack details not matched with the earlier document.
30. Para 4.2.2.1: Bench Parameter: The bench design should be justified and as per MMR, 1961. The copy of approval from DGMS for mining operation under regulation 106 of MMR should be submitted. Overall pit slope and slope angle of haul roads should be categorically mentioned.
31. Para 4.2.2.2: Recovery of ROM has been mentioned as 100% accordingly the whole table should be reconciled. Accumulation of OB should also be matched with Para 4.2.2.1.
32. Para 4.2.2.3: Manufacturer of Transportation and hauling equipment may be mentioned.
33. Para 4.3: Material Handling Summary: Nether any study has not been carried out nor report has been annexed. Clarification and rectification thereof to be submitted.
34. Para 4.3.2: In situ Mining: Data furnished are mismatching. The whole table should be reconciled.
35. Para 4.3.3: Dump Working: Change in recovery percentage in mineral reject Dump from the earlier Approved document to be justified with suitable evidence. Data furnished are mismatching. The whole table should be reconciled.
36. Para 4.3.4: Data furnished to be rechecked and the whole table should be reconciled /recalculated accordingly.
37. Para 4.4.2: TPH calculation to be rechecked. There is no mention about 1.5 M<sup>3</sup> excavators. Please specify.
38. Para 4.4.5: Machine deployment details: capacity of drilling machine to be mentioned.
39. Para 4.5: Blasting and explosive requirement in Waste and development to be furnished.
40. Para 4.5.2: Total ROM proposed to be handled is to be rectified and accordingly the table to be revised.
41. Para 4.7.4: No new stack of mineral and mineral reject has been proposed. Brief note of disposal of mineral reject to be elaborated.

#### **Chapter 5 : Sustainable Mining:**

42. Year wise proposal to be given in all aspects for development of community around the lease area. The cumulative work done / measures taken to be furnished.

#### **Chapter 6 : Progressive Mine Closure Plan:**

43. Para 6.1: Stabilized waste Dump rehabilitated area mentioned as 0 the same to be rectified.
44. Para 6.2.2.2: The co-ordinates of proposed retaining wall (Year wise) to be furnished.

45. Para 6.2.2.3: The co-ordinates of proposed garland drain (Year wise) to be furnished  
Para 6.2.3: Green belt Development: Table for cumulative work and year wise proposal are contradictory the same to be rectified.

Para 6.2.11: Land use of lease area at the expiry of the lease period to be reconciled.

#### **Chapter 7: FINANCIAL ASSURANCE/ PERFORMANCE SURETY**

46. Para 7.1 : Individual Year wise proposal for area put to use in different heads to be submitted and the same also matched with the FA plan with different colour code.

47. Para 7.2 The financial assurance in form of bank guarantee as per MCDR (Amendment), 2021 co-terminus to the plan period should be submitted and annexed in the final copy.

#### **CHAPTER-8: REVIEW OF PREVIOUS PROPOSALS**

48. Para 8.1.1: Reason for deviation in lease area utilisation to be mentioned.

49. Para 8.1.2 The proposals and achievement furnished under para 8.1.2 regarding SDF and CSR expenditure needs to be reviewed and rectified properly.

50. Para 8.2.1: 10 number of bore holes drilled against the proposal of 06 bore holes but the details as per the format has not been submitted. G axis upgradation as per MEMC Rule as mentioned to be clearly briefed with quantity of increase in reserve.

51. Para 8.2.4: Zero waste mining: Alternative use of waste generated should specifically mentioned.

52. Para 8.2.7: Handling of Mineral Reject: Achievement of Mineral rejects to be furnished instead of 0.

#### **Annexure**

53. Singed copy of form-I & J to be submitted.

54. Environmental monitoring reports should be submitted.

55. Revised Bench wise/ RL wise calculation of proposed production during the next Four years should be enclosed in annexure.

56. Revised Feasibility report should be enclosed as per MEMC Rules 2015.

57. All the litho logs 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.

58. 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.

59. Bank guarantee as per MCDR (Amendment), 2021 co-terminus to the plan period.

60. Certificate from qualified person regarding authenticity of information submitted is to be attached.

#### **Plates**

61. Magnetic Meridian and date of observation should be given on all relevant plans. Date of survey should be given on all plans and sections and signature should bear date of signature. All plans & sections prepared should follow the conventions mentioned under MMR 1961. All plans and sections shall show a scale of the plan at least twenty five centimeters long and suitably subdivided.

62. 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.

63. 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, within 5km should be prominently shown.
64. The DGPS plan and Lease plan submitted are not legible, a legible copy of the same to be submitted.
65. Surface Plan: All the boundary pillar coordinates to be given 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 with different type of land schedules. All the features have not been shown in the index. Common boundary with other lessees should be shown on the plan. The Surface Plan should be prepared to satisfy the provision as laid down rule 32 (1) (a) of MCDR'2017.
66. Geological Plan & Section: (i) part geological plan and sections should be prepared on same scale i.e. 1:1000 (ii) UNFC codes needs to be furnished in geological sections and level of exploration boundary needs to be shown in geological plan.
67. Geo structural information has not been furnished adequately. (iii) Limit of estimation should be as per MEMC rule 2015. (iv) All the geological information to be furnished on geological plan and section based on drilled BH, exposed pit, trial pits etc with their configuration profile (dimensions) like depth. Section lines with nomenclature should be highlighted on the plan. The litho sequence should be shown as per the borehole logs data in the sections. The sections should be prepared on the same scale as prepared for plan.
68. Development plan & Section: (i) present pit profile configuration of benches with UPL to be shown with red color and proposed development benches of each year with some other color. All development section to be submitted for which development is proposed. The proposed yearwise development area boundaries should be clearly depicted. (ii) The layout of the haul road for present and future excavation proposal should be properly addressed in line with safe movement of fleet of the machinery.(iii) The proposed and existing bench mRL to be shown clearly over year wise development plan and sections. (iv)Geological information to be furnished on development plan and sections like litho units. v) Year wise mining plan proposals should be submitted in softy copy in the format of .kml or .shp file along with document.
69. Progressive Mine Closure plan and sections: All revised year wise proposals as per comments in PMCP chapter to be depicted on the plan and sections.
70. Conceptual plan and sections: 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, end of lease period etc.
71. Environment plan: The Environment Plan as prepared should be satisfy the provision as laid down rule 32 (5) (b) of MCDR'2017. Wind rose diagram should be depicted.
72. Financial Assurance Area Plan: The existing and additional area requirement should be separately hatched on the plan with FA table.

## AT A GLANCE INFORMATION

	AT A GLANCE INFORMATION	
1	Name of the Applicant /lessee	
2	IBM Registration no	
3	Address of Applicant	
4	Name of Mine	
5	Minecode	
6	Lease area in hecets.	
7	Forest area	
8	Name of Mineral	
9	Lease period from to	
10	Plan proposal period-	
11	Mineral Reserve (111& 112) in tonnes	
12	Mineral Resources (211, 221,222, 331, 332, 333&334) in tonnes	
13	Production proposal <del>6<sup>th</sup></del> yr in tonnes 2022-23 (Mineral Name)	
14	Production proposal <del>3<sup>rd</sup></del> yr in tonnes 2023-24	
15	Production proposal <del>2<sup>nd</sup></del> yr in tonnes 2024-25	
16	Production proposal <del>4<sup>th</sup></del> yr in tonnes 2025-26	
17	<del>Production proposal ( 5<sup>th</sup> yr) in tonnes 2026-27</del> (include only saleble/ usable & sub grade mineral)	
18	<del>OB/Waste handling proposal 1<sup>st</sup> yr CUM</del>	
19	OB/Waste handling proposal 2nd yr CUM	
20	OB/Waste handling proposal 3rd yr CUM	
21	OB/Waste handling proposal 4th yr CUM	
22	OB/Waste handling proposal 5th yr CUM	
23	Present EC permission in tonnes(Mineral or ROM)	
24	Plantation proposal in five years in numbers	
25	Plantation area proposal in five year(ha).	
26	Back filling proposal in hecets in five years	
27	Check Dams numbers in five year	
28	Garland drain in meters five years	
29	Settling ponds (Numbers)	
30	Area put to use at end of five year in ha	
31	Bank Guarantee Amount Rs	
32	Validity of BG upto	
33	Any other important information	
34	Percentage of revenue sharing bid in case of auction grant of block	
35	Amount of performance security and details if any	