



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. MRMP/A/36-ORI/BHU/2021-22

Date: 17.02.2022

To

Shri C S Grewal, Proprietor,  
M/s National Enterprises ,  
At/Po- Barbil, Dist-Keonjhar,  
Odisha-758035

Sub: Approval of modification of Review of Mining Plan of Sanindpur Iron & Mn Mine along with Progressive Mine Closure Plan (PMCP), over an area of 70.917 ha in Sundargarh district of Odisha State, submitted M/s National Enterprises under Rule 17(3) of MCR, 2016.

Ref: - i) Your letter No. NE/BBL/867/21-22 dated 02.02.2022 received on 08.02.2022.  
ii) This office letter of even no. dated 08.02.2022.

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 Shri Ramkishan R, Deputy Controller of Mines & Shri A K Pany, 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 Hemanta Kumar Sahoo, M/s Geomac Solutions Pvt Ltd, S-26, BDA Market Complex, Nilakantha Nagar, Nayapalli, Bhubaneswar-751012.

(बाबुलाल गुर्जर)

क्षेत्रीय खान नियंत्रक

# Scrutiny comments of Modification of Review of Mining Plan of Sanindpur Iron & Mn Mine of M/s National Enterprises submitted under Rule 17(3) of MCR, 2016

## GENERAL

1. On examination of the draft Modification of Review of Mining Plan it is observed that the document is not prepared as per standard format. 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. In the name of lessee to be furnished as M/s National Enterprises represented by Shri Charanjit Singh Grewal at all places.
3. List of plates and annexures should be properly indexed with page nos. and in case of plates the scale should also be mentioned.
4. Before general information Mining plan at a glance to be inserted as per format enclosed as Annexure-I.
5. Before general information an introduction to be furnished incorporating the history of lease details. Also, information to be submitted as per following table in introduction:

Year	Existing proposal	Modification proposed	Reason of modification
2020-21		Not applicable/Period passed	
2021-22			
2022-23			
2023-24			
2024-25			

6. In the draft modification of Review of Mining Plan, production proposal has been increased from 0.45 to 2.99 million tonne which is around 6.6 times higher. Justification may be given for such high increase in production proposal.

## CHAPTER-1: GENERAL INFORMATION

7. Para 1.1: Lease details: In type of lessee, it should be furnished as individual. The type of lease is left blank. The same to be furnished as existing lease. In five year block, the five year Review period to be given.
8. Para 1.1.1: Initial/subsequent Lease grant details: The information on subsequent extension and execution of supplementary lease deed also to be given. In the table from-to date should be furnished.
9. Para 1.1.2: Mining Plan submission Criteria details: In reason of modification a comparative statement to be furnished incorporating the existing proposal as per

- Review of Mining Plan and modification proposed with proper justification. The LOI number and date is not applicable in case of existing lease.
10. Para 1.3: Existing Lease: The date of execution is not correct. The date of initial execution to be given.
  11. Para 1.3.1: Approval of earlier Mining Plan: Complete information not furnished. The Mining Plan approval detail before 2001 also to be given. The period from and to should be given in DD/MM/YY format.
  12. Para 1.3.2: Partial Surrendered area during stages of operations in chronological order: - The lease was initially granted over an area of 75.00 ha and 4.083 ha is surrendered. The information to be furnished.
  13. Para 1.3.4: Statutory Compliances : The EC capacity and SPCB approval i.e CTO and CTE should be in tonne. The Consent to establish attached in annexure and information in text are different. The Same to be corrected.
  14. Para 1.3.5.1: Location of Boundary Pillars:- The latitude and longitude of boundary pillar should be furnished in dd:mm:ss.ss format as well as UTM.

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

15. Para 2.1.2: Details of Physiographic features and Infrastructures available in and around the lease/ block area:- Suna Nallah passes touching the lease area. The information of the same is to be furnished in the second column.
16. Para 2.1.4.8: The type of deposit as per MEMC rules is to be furnished. The Dip direction to be re-checked.
17. Para 2.2.1.7: Exploratory Drilling: The bore hole information should be submit in soft copy in csv/excel files which include collar file, survey file, geology log file and RQD file as annexure. Copy of form-I & J should be submit in annexure. Copy of work order to exploration agency to be submitted in annexure.
18. Para 2.2.1.10: Chemical Analysis – The information to be furnished as per standard format in text and the analysis report from NABL accredited Lab/ Govt. Lab to be submitted in annexure.
19. Para 2.2.1.12: Beneficiation test:- The Beneficiation study report to be attached in annexure.
20. Para 2.2.2.13: Bulk Density : The bulk density analysis report for all rock types to be submitted.
21. Para 2.2.1.14: Area Covered under Exploration: The area covered under exploration in not calculated correctly. The same to be revised incorporating G1 area.
22. Para 2.2.4: Reserve / Resource Estimation Method:- The reserve estimation method to be described in details with threshold value, cutoff grade, tonnage factor and recovery etc. The reserve estimation is not carried out properly. The same to be estimated based on bore hole information as plotted in geological section. According the reserve/resource to be re-estimated. The recovery factor consider for estimation of reserve & resources to be justified as it is different from last approved Review of Mining Plan.

23. Para 2.2.4.2: Resource Calculation:- The information not furnished as per standard format of Mining Plan.
24. Para 2.2.2.10: Chemical Analysis – The information to be furnished as per standard format in text and the analysis report from NABL accredited Lab/ Govt. Lab to be submitted in annexure.
25. Para 2.2.4.13: The information not furnished as per standard format.
26. In the earlier approved Review of Mining Plan reserve/resource of Manganese ore was reported. However, in the present submission reserve/resource of Manganese ore has not been estimated. Justification to be given in this regard.
27. Para 2.2.5: Future Exploration Proposal – The information is not as per standard format.
28. The future exploration programme needs to be proposed as per Rule 12(3) of MCDR 2017 i.e. the entire potentially mineralised area under the mining lease should be explored under G1 level of exploration. The depth of the proposed exploration should be upto 300m /end of mineralisation, whichever is earlier. The complete exploration proposal to be given during the year 2022-23. Some bore holes like BH-26,27,48 etc. terminate in ore, extension proposal of all the holes terminate in ore to given.
29. The reserve and resource were not estimated as per provisions of MEMC Rules 2015. For example in section DD' no boreholes present in between BH-47 & BH-49 upto 400 m. However, the total area considered for reserve calculation. The lateral influence is not considered as per Part-II SI No.4 and Part-III of MEMC Rules, 2015.

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

30. Para 3.1: The name valuable mineral is not correct. The information to be supported by mineralogy study report.
31. Para 3.2: Complete Chemical Analysis of the ROM Ore/Mineral – The chemical analysis report to be submitted in annexure.
32. Para 3.3.2: Secondary Crushing:- In type of crusher Jaw/Cone/Roll etc. may be furnished.
33. Para 3.5.3: Product Quality: The product generated in dry screening should be furnished.
34. Para 3.9: Overall water requirement of mining and mineral processing: The permission from competent authority for use of ground/surface water is to be submitted in annexure.
35. Para 3.10: Flow sheet and Chart: The material balance chart to be submitted with capacity of screen/crusher etc. as annexure.

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

36. The excavation proposal to be reviewed after re-estimation of reserve/resources.
37. Para 4.1.1 and 4.1.2: Existing and proposed methods of mining should be described in brief in the prescribed table.

38. Para 4.2.1.1: Pits: In earlier approved document 7 nos. of pits are shown. However, in present submission information in respect of 6 nos. of pits are furnished. Justify the same.
39. Para 4.2.1.2.1: Dump details: The area covered by waste dump is less than the area reported in earlier approved document. Re-check the same and submit.
40. Para 4.2.1.2.2: Stack details: The information on existing mineral reject stack has not been furnished.
41. Para 4.2.2.1: Bench Parameter: The table is not as per standard format. The Pit Id left blank, same to be filled.
42. Para 4.2.2.2: Year wise Opencast Development: The recovery percentage calculation is not correct. Recovery should be estimated based on salable ore. The same to be corrected. The year wise total excavation to be given. In location of advancement the coordinate of location of development to be furnished. The year wise, section wise calculation of Ore and OB to be submitted in annexure.
43. Para 4.3.4: Calculation Summary: In para 4.3.3 i.e dump working no proposal was given. However, in para 4.3.4 proposed dump re-handling quantity is furnished. The same to be corrected.
44. Para 4.4: Machine Calculation: The machinery calculation is not furnished correctly. The same to be checked and properly calculated considering total maximum excavation. The material handled per shift is not correct. Accordingly, the Shovel/excavator, Dumper and Drill machine requirement to be re-calculated.
45. Para 4.5: Blasting requirement: The explosive requirement and powder factor is not calculated properly. The same to be checked and corrected.
46. Para 4.7.2: New Dump: As the existing waste dump -III is proposed for extension, the area covered under dump should be greater than existing dump. The area and height of dump to be checked and corrected.
47. Para 4.9: Use of Minerals: The use of mineral may be furnished.

#### **Chapter 5: SUSTAINABLE MINING:**

48. Year wise proposal to be given in all aspects for development of community around the lease area. Specific proposal to be given in respect of recreational facility, water recharge facility etc. The area to be proposed in ha. In efforts for green energy, the percentage of green energy proposed to be furnished. The consumption of water and recycled percentage is also to be furnished. The cumulative work done/measures taken furnished is to be checked for the year 2022-23, because the proposal and cumulative are same.

#### **Chapter 6: PROGRESSIVE MINE CLOSURE PLAN**

49. Para 6.2.2.2: Protective measures: The cumulative work done as on date regarding construction of retaining wall and garland drain is also to be given.
50. Para 6.2.3.1: Cumulative work done (upto end of previous block of five years): This para left blank. Information to be submitted.
51. Para 6.2.3.2: Year Wise Proposal: The estimated expenditure left blank.

52. Para 6.2.11: Land use of lease area at the expiry of lease period (conceptual stage): The information not matched with lease area. The total area degraded and non-degraded at the expiry of lease should be equal to the lease area. The information to be corrected.

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

53. The first table to be deleted. The area put to use at start of plan under waste dump as per the earlier approved document is 5.06 ha, however in present submission the same is 3.602 ha. Justify the same.

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

54. In the reason of deviation the date of re-opening of mine to be given and the reason of closure with documentary evidence to be submitted .
55. In Review of proposal, the proposal and achievement for the year 2020-21 and 2021-22 (upto Jan 2022) to be given with reason of deviation.

**Chapter 9: IMPACT ASSESSMENT**

56. 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 document if any.

**Annexure**

57. Financial assurance in the form of Bank guarantee under Rule 27 of Mineral Conservation and Development (Amendment) Rules, 2021.
58. Experience certificate of Qualified person regarding is to be attached.
59. Some of the borehole logs are not legible. A legible copy of the same to be submitted. All the lithologs with chemical analysis of the all the exploration work carried out till date should be submitted.
60. Bulk density study report.
61. Water balance chart.
62. Calculation sheet of insitu tentative excavation year wise considering the cross-sections, Bench RL etc. should be furnished.
63. The pre-feasibility report not submitted. The same is to be submitted.
64. The details information of violations pointed out and compliance status for last five year to be submitted as annexure with supporting documents.

**Plates**

65. 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.
66. Geological Plan:- The level of exploration i.e. G1/G2 area not marked in geological plan. The exploration proposal to be revised with proposal of entire potential mineralised area into G1 level of exploration during the year 2022-23.
67. Geological Section: The Level of exploration and UNFC code to marked in geological section. The Proposed boreholes also plotted in geological section with dotted line. The ultimate pit limit is not marked properly. The same should be marked from safety zone for recovery of maximum ore.

68. Development Plan:- The proposed year wise proposed benches should be shown in bold line with RL in different color. The year wise waste dumping proposal also to be shown in development plan to RL of dump terrace.
69. Development section:- The UPL and development proposal to be shown in different color code for easy identification.
70. The garland drain/retaining wall proposed not shown in development plan and dump plan.
71. Environment plan: All the environmental monitoring stations to be plotted.
72. PMCP Plan: The protective measures proposed i.e. retaining wall and garland drain to be furnished. The year wise plantation proposal also to be shown.
73. Financial Assurance Area Plan: The Financial Assurance Area Plan not submitted. The same to be submitted plotted with year wise area put to use in different heads.



AT A GLANCE INFORMATION	
1	Name of the Applicant /lessee
2	IBM Registration no
3	Address of Applicant
4	Name of Mine
5	Mine code
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 (1 <sup>st</sup> yr) in tonnes 2020-21
14	Production proposal (2 <sup>nd</sup> yr) in tonnes2021-22
15	Production proposal (3 <sup>rd</sup> yr) in tonnes 2022-23
16	Production proposal (4 <sup>th</sup> yr) in tonnes2023-24
17	Production proposal ( 5 <sup>th</sup> yr) in tonnes2024-25
18	OB/Waste handling proposal 1 <sup>st</sup> yr CUM
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