



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. RMP/A/10-ORI/BHU/2021-22

Date: 14.07.2021

सेवामे

Shri Basanta Kumar Mohanty, Nominated Owner,
M/s Kushaleswar Minerals,
Madhusudan Square, New Market,
Barbil, Dist- Keonjhar, Odisha-758035

विषय: Approval of Review of Mining Plan of Raika-Kalaparbat Iron & Mn Mine along with Progressive Mine Closure Plan (PMCP), over an area of 9.8136 ha in Keonjhar district of Odisha State, submitted by M/s Kushaleswar Minerals under Rule 17 of MCR, 2016.

- संदर्भ: - i) Your letter No. Nil dated 16.06.2021 received on 21.06.2021.
ii) This office letter of even no. dated 21.06.2021.
iii) This office letter of even no. dated 21.06.2021 addressed to Director of Mines, Government of Odisha copy endorsed to you.

महोदय,

This has reference to the letter cited above on the subject. The draft Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on site inspection carried out on 05.07.2021 by Shri Ramkishan R, 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 Review of Mining Plan in the light of the contents vide Annexure I and submit **three (3) firm bound and two (2) soft copies of the document text in USB Pendrive/Flash drive in a single MS Word file (the drawing/plates should be submitted in Auto CAD compatible format or JPG format in resolution of 100x100 pixels on same USB Pendrive/Flash drive)** with financial assurance under Rule 27 of MCDR 2017 of the Review of Mining Plan within **15 (Fifteen)** days from the date of issue of this letter, for further necessary action. If the total page of annexures exceeds 50 (Fifty) then it should be submitted as separate volume. But reference of these annexures must appear in the Review of Mining Plan document. The plates are also to be submitted in separate volume.

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

07/21

(हरकेश मीना)

क्षेत्रीय खान नियंत्रक

Copy for kind information and further necessary action to Shri S.C. Nayak, M/s MINESKETCH Consultants (P) Ltd, Flat No-205, Bhagwan Tower, Cuttack Road, Bhubaneswar-751006.

(हरकेश मीना)

क्षेत्रीय खान नियंत्रक

Scrutiny comment on Review of Mining Plan including PMCP of Raika-Kalaparbat Iron & Mn Mine of M/s Kushaleswar Minerals Limited over an area of 9.8136 Ha in Keonjhar district of Odisha

GENERAL:

1. The validity of the lease period as per the lease deed up to 08.04.2011. No document along with relevant details has been enclosed in support of subsistence of lease validity.
2. Supporting documents regarding registered partnership firm should be enclosed. GST certificate should also be furnished. Related document in support of details furnished in page no.4 regarding the share of the partners should be furnished.
3. In the cover page, Name of Nominated Owner (lessee), Address of lessee should be furnished on cover page with contact phone numbers and e-mail. IBM registration number with mine code should be furnished.
4. In Para 3.3, review of earlier approved proposal in respect of exploration, excavation, reclamation etc. should be furnished. Reason for deviation furnished as FC not available. The mine operations suspended by DDM should also be furnished as one of the reason. The proposal of ROM production and achievement should be rechecked and corrected.

GEOLOGY AND EXPLORATION:

5. In Page no.18,19 future exploration proposal should be modified to the extent that area that falls under G2 and G3 UNFC category and unexplored area, should be converted to G1 level of exploration as per exploration norms specified in Part III of MEMC rules 2015. The depth of proposed boreholes should be up to 300 meters or up to discontinuance of ore body, whichever is earlier. In the table under proposed exploration program, a column should be inserted showing the purpose of borehole (for lateral extension or depth ward) conversion of G2,G3 or unexplored area area to G1. The summary of the boreholes should be furnished in the following table format.

Year	No of Boreholes	Grid Interval	Total Meterage	No. of Pits, dimensions and volume	No. of Trenches, dimensions and volume
2021-22					

6. Recovery factor and bulk density considered for Iron ore and Manganese ore as well as mineral rejects should be justified with documentary evidences.
7. The date mentioned for reserves/resources as on in page no.22 should be rechecked.
8. The summary of ore and mineral reject along with grade under various level of UNFC should be furnished for different minerals in the final presentation of reserves/resources UNFC table.
9. The justification for UNFC categorization of resources should also be furnished.

MINING:

10. Justification for area proposed for mining has not been given with respect to exploration, targeted quantity and grade considering mineral conservation and grade.
11. In page no.43 dump re-handling is proposed but not for recovery of mineral. If it is just to alter the location, then it should be addressed in stacking of waste chapter separately. Necessary corrections to be done in text and plates.
12. Justification of equipment should be based on maximum excavation quantity to be handled in five year excavation proposal. Information of existing and proposed machineries with capacity should be proposed. Necessary correction in the calculation need to be done.
13. Conceptual Mine planning should be modified taking into consideration of the revised production from in-situ excavations, available reserves and resources describing the excavation, recovery of ROM, Disposal of waste, backfilling of voids, reclamation and rehabilitation showing on a plan with few relevant sections.
14. In pursuant to the order dated 14.01.2020 passed by MoM, Gol, 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 "regrassing in mining area after closure of mines". Accordingly proposal has not been submitted in conceptual planning, conceptual plan and sections.

STACKING OF MINERAL REJECT /SUB GRADE MATERIAL AND DISPOSAL OF WASTE

15. In Para 4a, the nature and quantity of top soil, overburden / waste and Mineral Reject to be disposed of have not been furnished in the following format.

Year	Top Soil (cum)		Waste (cum)				Mineral Rejects (tones)			
	Reuse/ spreading	storage	Total generation	Backf illing	Storage (dumpi ng)	Utiliza tion	Total generati on	Blending	Storage	Benefici ation

16. The proposal for dumping may be given in tabulated format as shown below: Further, Build-up of dumps from year to year to be mentioned in text w.r.t. designed capacity of dumps, bottom and top mRL of individual terrace, dump slope, individual terrace height and slope with description of method & manner of disposal of waste should be mentioned. The method of waste dumping should be in retreating manner. The year wise buildup of dump should be described. The waste dumping should be proposed in non mineralized area only.

Year	Waste to be dumped (in m3)	Dump No	Location of dumping (coordinates)	Proposed area (m2)	Proposed dumping mRL.	No of terrace proposed.	Individual Terrace height	Slope of the terrace

PROCESSING OF ROM AND MINERAL REJECTS:

17. A material balance chart with a flow sheet or schematic diagram of the processing procedure for Manage ore should be furnished.

OTHERS:

18. Information in respect to the existing and proposed manpower right from management level to unskilled labor both on role and contractual has to be mentioned separately in the text.

PROGRESSIVE MINE CLOSURE PLAN:

19. The air, water and noise monitoring stations and their frequency of monitoring have not been furnished in tabulated format. All water discharge points from lease area to external should be monitored. Accordingly, monitoring proposal to be submitted. Further, Gap plantation along the safety zone should be furnished.

20. All the paragraphs should be addressed in detail under PMCP chapter as per IBM Manual Appraisal MP 2014. The present land use pattern should be furnished as per the format of FA table of different heads. Year wise mining plan proposals and land use pattern should be submitted in softy copy in the format of .kml or .shp file along with document. Need to do necessary corrections.

21. Copy of the Bank guarantee as per Rule 27 of MCDR, 2017 should be submitted.

PLATES (GENERAL):

1. 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 a scale of the plan at least twenty five centimeters long and suitably subdivided. The plans and sections submitted should bear the certificate that - the plans and sections are prepared based on the lease map authenticated by the state government. The index should be kept same in all the plans and sections.
2. All plans and sections to be submitted in UTM grid.
3. 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.
4. The plans should be prepared on latest survey carried out in the field depicting the exact surface features.

5. **KEY PLAN:** The key plan should incorporate all features as mentioned Rule 32 5 (a) of MCDR 2017. The approach road to the lease area, 5 Km boundary and wind rose diagram etc. has not been shown.
6. With reference to **CCOM Circular No 2/2010**, the geo-referenced mining leases map superimposed on latest high-resolution satellite data has not been submitted over the lease area by certifying the lease area over the plan. Lessee has submitted but area not certified.
7. **SURFACE PLAN:** The index of surface right area shown should be distinct from index of safety zone. The Surface Plan should be prepared to satisfy the provision as laid down rule 32 (1) (a) of MCDR'2017. The DGPS surveyed latitude-longitude and UTM coordinates of all the boundary pillars have not been furnished in tabulated format. The plan should be updated based on the recent survey. Forest area and non-forest area should be demarcated on the plan. Surface right area should be demarcated on the plan.
8. **GEOLOGICAL PLAN & SECTION:**
 - (i) Cross section lines with nomenclature have not been shown on the geological plan.
 - (ii) The Geological Plan should be prepared to satisfy the provision as laid down rule 32 (1) (b), (c) and (d) of MCDR'2017
 - (iii) Index of different grade of limestone do not corroborate with the index shown in plan and sections. Need to recheck and correct at relevant places. Proposed boreholes should be shown in plan and sections. The proposed borehole should be shown in dotted lines in geological sections. UNFC codes, UPL should be shown in Geological sections.
9. **DEVELOPMENT PLAN & SECTION:**
 - (i) Development plan and sections should be revised based on updated geological map and sections. Index of the UPL shown in plan and section and those shown in index is different.
 - (ii) The proposed and existing bench mRL to be shown clearly over year wise development plan and sections. Geological information (lithology) has not been furnished on the area proposed for development in year wise development plan and sections. Plan and section should be drawn on same scale on 1: 1000.
 - (iii) Existing and proposed protective measures and plantation should be shown in different colors around all waste dumps and mineral reject dumps. Index of safety zone boundary and surface right area should have distinct color. Year-wise development plan and section should be separately submitted on same scale.
 - (iv) Year wise mining plan proposals should be submitted in softy copy in the format of .kml or .shp file along with document. Need to do necessary corrections.
10. **ENVIRONMENT PLAN:**

The environment plan has not been prepared as per the provision laid down in rule 32 (5) (b) of MCDR'2017.
11. **RECLAMATION PLAN:**

Reclamation plan should be submitted instead of progressive mine closure plan. Existing and proposed protective measures and plantation should be shown in different colors along all waste dumps and mineral reject dumps. Index of safety zone boundary and surface right area should have distinct color.
12. **FINANCIAL ASSURANCE AREA PLAN:**

The area degraded due to mining and allied activity and waste dump sites to be considered in FA calculation. The existing area and additional area under different heads should be shown properly under different colored hatching.

ANNEXURES:

1. Few photographs showing Land use of the lease area,
2. Details of Qualified person like experience and qualification as per provision of rule 15 of MCR 2016 should be furnished.
3. All the annexure to be properly numbered/paged and relevant annexure to be signed by qualified person etc. It is observed that many of the annexures are not legible. A legible copy of same to be enclosed.
4. Copy of bank guarantee has not been enclosed. Photographs of boundary pillars should be enclosed.
5. Certificate of surveyor.

A. Dabit
7/7/21