



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. RMP/A/33-ORI/BHU/2021-22

Date: 10.01.2022

To,

Sh. Antaryami Mishra, Mine Owner,
At : Thikadarpara,
Po/Dist-Bolangir,
Odisha-767001,
E-mail : mishragraphiteindustries@gmail.com

Sub: Approval of Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) of Ainlapali Graphite Mine, over an area of 14.937 ha in Bolangir district of Odisha State, submitted by Sh. Antaryami Mishra under Rule 17(2) of MCR, 2016.

Ref: - i) Your letter No. Mines/146/2021-22 dated 22.12.2021 received on 30.12.2021 & Email dated 30.12.2021.
ii) This office letter of even no. dated 30.12.2021.
iii) This office E-mail dated 30.12.2021 addressed to Director of Mines, Government of Odisha under endorsement to you.

Sir,

This has reference to the letters 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 the site inspection dated 06/01/2022 by 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 Review of Mining Plan in the light of the contents of Annexure-I and submit:-

- (i) Three (03) 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) Soft copy of the document shall be sent through e-mail to this office. The soft copy/hard copy 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.

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 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.

Enclosed: As Above

भवदीय,



(बाबुलाल गुर्जर)

क्षेत्रीय खान नियंत्रक

Copy for kind information and further necessary action to Shri Binod Kumar Acharya, Qualified Person, E-mail : nrmtcs@gmail.com



(बाबुलाल गुर्जर)

क्षेत्रीय खान नियंत्रक

N.O.O:

Copy for kind information to the Controller of Mines (EZ), Indian Bureau of Mines, CP-13, Sector V, Salt Lake City, Kolkatta- 700 091.



(बाबुलाल गुर्जर)

क्षेत्रीय खान नियंत्रक

Scrutiny comments on examination of Review of Mining Plan in respect of Ainalpali Graphite Mine , over an area of 14.937 ha Bolangir District , Odisha , of M/s. Antaryami Mishra , after the site inspection on 6/1/2022 to 7/1/2022.

PART -A

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. As the mining lease is valid upto 27/3/2027 hence all the proposals are to made in the document accordingly.
- 2 On the cover page, mining lease no and address of Qualified person along with his phone no and email id are to be mentioned..
- 3 At glance information with respect to the document submitted are to be furnished as per the annexure enclosed before the general information chapter.
- 4 An introduction of the mining lease area along with a brief history is to be furnished.
- 5 Under para 1.3.1 , date of approval of last the Review of Mining plan is not correct.

GEOLOGY AND EXPLORATION:

- 6 Para- 2.1.4.1, thickness of various litho units (minimum and maximum) as encountered in the bore holes drilled are to be furnished.
- 7 .Para 2.1.4.5 extent of weathering , para 2.1.4.6 nature of mineral and para 2.1.4.7 extent of mineralization are to be discussed with reference to the mining lease area also.
- 7 Para 2.2 , name of the exploration agency with complete address is to be furnished.
- 8 Para 2.1.4.8 type of deposit as per MEMC rules is to be mentioned.
- 9 Log sheet of each borehole in csv/excel format under para 2.2.1.7 and 2.2.2.7 should be submitted in soft copy.
- 10 Para 2.2.1.9 sampling details are not given as per the format.
- 11 Para 2.2.1.13 recovery test report of mineral is to be enclosed with the document from NABL.
- 12 Para 2.2.2.5 , 2.2.2.9, 2.2.2.10 details not are to be furnished as per the prescribed format only . Need correction.
- 13 Para 2.2.2.14 and para 2.2.1.14, area under various levels of exploration are not matching. Need correction in the tables and also at all relevant places of the document
- 14 Para 2.2.4.1 , it observed that while describing the spacing of boreholes drilled , the term proved and probable reserves is mentioned. The same is to be replaced/ described as G1/G2 as per MEMC rules.
- 15 Para 2.2.4.2 , the range of FC% considered is to be mentioned in the resource quantity of saleable ore, Similarly the quantity of unsalable ore is to be shown in the table along with % of FC range.
- 16 Para 2.2.4.12 and para 2.2.4.13 of reserves/resource estimation as per UNFC code are not matching . Need correction in the table and all other relevant places of the document.
- 17 The future exploration programme is to be furnished under para 2.2.5 . The entire mineralized area is to be expored under G1 level of exploration (core angular bore holes by considering the dip of ore body) by 26/2/2022 in accordance with the manner

specified in MEMC rules 2015 . Need correction at all the relevant places of the document.

MINERAL PROCESSING

18 Para 3.1 and para 3.2 are not furnished correctly . Need correction,

MINING OPERATIONS

- 19 Para 4.1.1 and 4.1.2 , Existing and proposed methods of mining should be described in brief in the prescribed table,
- 20 Para 4.2.2.2 year-wise development is not furnished as per the prescribed format . Proper length, width, height and recovery etc figures are to be given in the table .
- 21 Para 4.3.1, information furnished in the table against recovery study report and hydrological study report are not correct. Need correction.
- 22 Para 4.3.2 , informations are not furnished in the table for mineral reject. Need correction.
- 23 Para 4.3.4 , calculation summary is to be recasted based on the para 4.2.2.2.4,year wise open cast development table.
- 24 Para 4.4 , the machine calculation furnished for excavation and handling should be re checked keeping in view the total excavation from the mine.
- 25 Para 4.7.2 the proposed area shown is not correct , Need correction in the text and at all the relevant places of the document.
- 26 Para 4.7.4 details of new stacks , type of stack mentioned is not correct.
- 27 Para 4.9 use of mineral is to be mentioned in the table with reference to mineral produced from the mine also.

SUSTAINABLE MINING:

28 The details furnished under para 5.2.1 to 5.2.5.14 needs to be reviewed and rectified properly as per the discussion during the field inspection.

PROGRESSIVE MINE CLOSURE PLAN

- 29 The details furnished under para 6.2.2.1.1 to 6.2.2.2.3 needs to be reviewed and recast properly in view of the development and production proposal .
- 30 The details furnished under para 6.2.3.1, should be as per the annual return submitted.
- 31 Para 6.2.4.2 , area proposed is to be shown in Ha.
- 32 The details furnished under para 6.2.11 regarding the land use at the expiry of the lease period should be rechecked.

FINANCIAL ASSURANCE/PERFORMANCE SECURITY

33 Under para 7.1,In the year the area put to use under waste dumps is not correct. The details furnished in the Financial Assurance table are to be corrected. The area degraded due to mining and allied activity to be considered in FA calculation is to be revised accordingly. Need correction at all the relevant places of the document.

REVIEW OF PREVIOUS PROPOSALS :

34 The details of the plan period for which the review is carried out is to be mentioned in remarks.

PART-B

ANNEXURES

- 35 Copy of Bank Guarantee is to be enclosed with the document.
- 36 Copy of Form I and J of all the boreholes drilled during the last plan along with analysis from NABL lab are to be enclosed.

37 . The Pre-Feasibility Study report is to be enclosed with the document as per part V of the Schedule of MEMC Rule 2015.

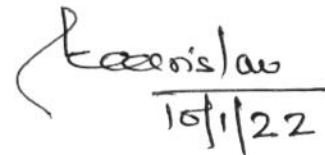
38 Valid Copy of Consent to Establish and consent to Operate is to be enclosed.

39 The final soft copy of the document should be digitally signed by QP.

40 PART-C

PLANS AND SECTIONS

43. All plans and sections should be signed with date by Qualified Person .
- 44 All the plans should be submitted as hard copies along with their soft copies in KML/KMZ/SHP file (Georeferenced) , except sections in Pdf/.dwg format
- 45 Key Plan: Legible copy of the key plan is to be enclosed .The key plan should incorporate all features as mentioned Rule 32 (5)(a) of MCDR 2017.
- 46 Surface plan: Location of waste dumps shown is not correct. All the features such as office , trial pits, lease boundary symbol etc have not been shown properly in index and on the map. The surface plan is to be prepared as per rule 32(1)(a) of MCDR 2017.
- 47 Geological Plan : area under G1/G2/G3 is to be shown. Dip and strike is to be marked on the plan. Location of the proposed boreholes to be revised by considering the dip of ore body. Index and lease boundary are to be shown properly
- 48 Geological sections: Area shown under 111/122/333 is not correct. Thickness of the ore body is to be marked based on the boreholes data. Proposed boreholes are to be marked based on the revised proposal. Resources/reserves are to be re- estimated. Accordingly corrections are to be made at all the relevant places of the document.
- 49 Development plan & Section: (i) Proposed development of benches of each year needs to be revised based on the re -estimation of reserves/resources . UPL is to be revised. The layout of the haul road for excavation proposal should be properly.
- 50 Environment plan: Environment monitoring stations are to be marked properly. . The Environment Plan to prepared as per the provision as laid down rule 32 (5) (b) of MCDR'2017.


10/1/22

Annexure

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

<i>Settling ponds (Numbers)</i>	
<i>Area put to use at end of five year in ha</i>	
<i>Bank Guarantee Amount Rs</i>	
<i>Validity of BG upto</i>	
<i>Any other important information</i>	
<i>Percentage of revenue sharing bid in case of auction grant of block</i>	
<i>Amount of performance security and details if any</i>	