



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 Speed Post/E-mail
Phone: 0674-2352463;
Tele Fax: 0674-2352490;
eMail:
ro.bhubaneswar@ibm.gov.in
Plot No.149, Pokhariput
BHUBANESWAR-751020

No FMCP/A/05-ORI/BHU/2019-20

दिनांक / Date: 16.01.2020

To

The Managing Director &
Nominated Owner, M/s OMC
Limited, OMC House, Bhubaneswar,
Odisha – 751001.

Sub: Final Mine Closure Plan of Budhapara Gemstone (Garnet) Mine over an area of 33.95 ha in Nuapada district of Odisha of M/s OMC Limited submitted under Rule-24 of Mineral Conservation and Development Rules, 2017.

Ref: -i) Your letter no. 20431/OMC/2019 dated 23.12.2019 received on 27.12.2019.
ii) This office letter of even no. dated 27.12.2019.
iii) This office letter of even no. dated 27.12.2019 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.

Sir,

This has reference to the letters cited above on the subject. The draft Final Mine Closure Plan (FMCP) has been examined in this office based on site inspection carried out on 05.01.2020 by Shri Sudip Ranjan Mazumdar, Senior Mining Geologist. The deficiencies observed are enclosed herewith as Annexure-I.

You are advised to carry out the necessary modifications in the draft Final Mine Closure 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 CD in a single MS Word file (the drawing/plates should be submitted in Auto CAD compatible format and JPG format in resolution of 100x100 pixels on same CD)** 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 Final Mine Closure 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 modified copies of the Final Mine Closure Plan. It may be noted that no extension of time in this regard will be entertained and the Final Mine Closure 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 / yours faithfully,

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

Copy for kind information and necessary action to:-

1. Shri A. K. Samantray and Shri Subrat Kumar Behera, Qualified Person, M/s Odisha Mining Corporation Limited, OMC House, Post Box No.34, Bhubaneswar-751001,Odisha.

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

Scrutiny comments on examination of FMCP of Budhapada Gemstone (Garnet) Mine over an area of 33.95 Ha of M/s OMC Ltd in Nuapada, District of Odisha

GENERAL:

1. Sequence of para and its numbering as per IBM Manual appraisal MP 2014 has not been covered in text. All the annexure and text have not been properly indexed/ numbered/ paged and signed by qualified person.

FMCP TEXT:

2. In para 1, it has been mentioned that the mining lease area of 33.95 Ha is in Nuapada district whereas in lease deed the said mining lease area mentioned is in Kalahandi district. Need to recheck and rectify at all relevant places in the document.
3. In Para 1, the total pre-operational land use pattern shown is 87.02 acres whereas the total land schedule in lease deed mentioned is 83.89 acres. Need to recheck and rectify at all relevant places in the document.
4. Chapter-1, Para-1.1, Reason for Closure/Surrender for which this FMCP has been submitted have not been specified clearly with adequate justification as mentioned in IBM appraisal of Mining plan 2014.
5. In para 1.2, status/compliance of all statutory obligations as mentioned in IBM appraisal of Mining plan 2014 have not been described. Need to describe in detail.
6. The status of exploration of the lease area as shown in table 4 is incorrect and should be calculated as per the provision of MEMC rules, 2015. Area considered under G2 and G3 level of exploration is not as per the provision of Minerals (Evidence of Minerals Content) Rules, 2015. Necessary justification has to be submitted as per the provision of MEMC Rules, 2015.
7. Under Para 2.2, the mineral reserves estimated in the last mining plan was 5000 kg while in FMCP the resources reported at 53134.62 gm. while it has been mentioned that there was no depletion in reserves as mining operation has not been carried out since execution of lease. Further, the information on recovery of garnet from excavated pits furnished in table 5 of FMCP does not match with information on recovery of garnet from pits/trenches as furnished as annexure-C in Mining plan of Budhapada Garnet deposit. Therefore, the reserve/resource estimation should be rechecked and corrected.
8. Further, to establish the pre-feasibility, potentially economic and geological axis of resources under "222" category of UNFC, general to detail level of exploration as per exploration norms specified in UNFC (field guidelines for adoption of UNFC) and in MEMC Rules, 2015 has not been carried out over the entire lease area. Therefore, estimation of resources under "222" category is incorrect and not justified. Further, the uneconomic operation cannot be justified in absence of general to detail level of exploration over lease area. Need to carry out general to detail level of exploration before justifying uneconomic operation. Need to do needful corrections at all relevant places.

9. A fresh Prefeasibility study to be carried out UNFC norm after carrying out General to Detail level of exploration as per norms specified in prefeasibility study. Market assessment has to be done in prefeasibility study. Exploitation cost & sale value of mineral should be clarified and Cost-Benefit analysis and financial appraisal to be carried out based on real time cost involved. The uneconomic operation of the deposit should be justified by preferability study. Necessary corrections and relevant documents to be submitted.
10. Fresh geological mapping should be carried out and the disposition of the lithounits has to be updated as per field position along with their dimension and attitude. Cross sections have to be drawn at regular interval. Length of influence considered has not been justified. Accordingly, UNFC boundaries should be redrawn and section wise resources/reserves have to be re-estimated as per the provision of MEMC Rules, 2015 after carrying out general to detail level of exploration as per UNFC norms. Determination of bulk density and recovery factor considered should be justified based on field test supported by necessary documents.
11. Justification of UNFC is inadequate and has to be further explained and elaborated as per UNFC guidelines for different categories of resources.
12. Under para 3, the details of various proposals committed with special emphasis on the proposals for protection of environment in the approved Mining Plan including five years Progressive Closure Plan up to the closure of mine vis-a-vis their status of implementation has not been furnished. Need to do necessary corrections.

PLATES (General):

- i) Show a scale of the plan at least twenty-five centimetres long and suitably sub-divided;
- ii) The conventions provided under the Metalliferous Mines Regulations, 1961, shall be used in preparing all plans and sections
- iii) All plans and sections should comply with the provisions of Rule 32 of MCDR 2017.
- iv) 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. All plans and sections should be signed by Qualified Persons.
- v) Date of observation of Magnetic meridian should be shown in all plans.
- vi) Since the DGPS survey map have not been submitted, all the plans should be prepared based on the boundary description of lease pillars mentioned in lease deed. Need to modify all plans and sections accordingly.

Annexures:

- i) In the copy of the board resolution it is mentioned that Budhapara mining lease over 33.95 Ha is in Nuapada district whereas in lease deed the said mining lease area mentioned is in Kalahandi district. Need to rectify the board resolution accordingly.

- ii) Certificate of registration of the company and memorandum of the association to be enclosed.

Key Plan:

- i) The key plan should incorporate all features as mentioned Rule 32 (5) (a) of MCDR 2017.
- ii) Approach road to lease area, wind rose diagram etc. have not been shown.

Surface Plan:

- i) Few boundary pillars have not been correlated with permanent ground features giving distance and direction.
- ii) Surface plan should be prepared and certified by the certified Surveyor along with date of survey to be mentioned. Certificate of Surveyor should be enclosed.
- iii) The trial pits have been filled up with soil. The quarry shown have been partially reclaimed naturally. The same have not been updated in the plan.
- iv) The natural vegetation cover has not been shown in surface plan.

Geological Plan & Section:

- i) The dimension of the lithological outcrops as shown in the plan does not match with the field exposure. The same should be updated through fresh geological mapping.
- ii) UNFC boundaries to be redrawn in Geological plan & sections as per MEMC Rules, 2015.
- iii) The redefined UNFC boundaries and UPL along with UNFC code to be shown in Geological Plan and sections.
- iv) The trial pits have been filled up with soil. The same should be updated in the index and shown in the plan.

Environment plan:

- i) The Environment Plan has not been prepared complying the provision as laid down rule 32 (5) (b) of MCDR'2017. Environment Plan, showing natural drainage systems such as water course, streams, nala, river, Forest with tree density, waste land, agricultural land, grazing land etc. have not been submitted. Necessary corrections to be done.

Reclamation plan:

- i) In Reclamation plan no. of plants, tree density, area covered, may be shown and also describe in text. The trial pits have been filled up with soil. The quarry shown has been partially reclaimed naturally. The same have not been updated in the plan. The natural vegetation cover has not been shown.

Somasunder
16/01/2020
(Sudip Ranjan Mazumdar)
Senior mining Geologist