



भारत सरकार / GOVERNMENT OF INDIA

खान मंत्रालय / MINISTRY OF MINES

भारतीय खान ब्यूरो / INDIAN BUREAU OF MINES

गुवाहाटी क्षेत्रीय कार्यालय / GUWAHATI REGIONAL OFFICE

क्षेत्रीय खान नियंत्रक का कार्यालय / OFFICE OF THE REGIONAL CONTROLLER OF MINES

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Chandmari, Post – Bamunimaidan, Dist – Kamrup (M),
Guwahati, Assam-781021

No.IBM/GHY/MEG/EJNH/LST/MP-93

Date: 18.1.2020

To,

Sri. PK Bagla, Managing Director

M/s. Amrit Cement Limited, Trinity, 226/1, AJC Bose Road, 6th Floor
Kolkata – 700 020 E-mail: info@amrit.co.in

Sub: Scrutiny Comments on the submitted draft report on Mining Plan along with Progressive Mine Closure Plan in respect of Mulieh Umlong Limestone deposit over an area of 7.33 Ha. in Mulieh Umlong Village, East Jaintia Hills district of Meghalaya State of M/s. Amrit Cement Limited., submitted under Rule 16(1) of MCR 2016 & 23 of MCDR 2017.

Ref: Your letter No. NIL dated NIL received on dated 6.1.2020.

Sir,

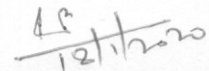
Please refer to your letter on the subject cited above, the submitted draft report on Mining Plan along with Progressive Mine Closure Plan in respect of Mulieh Umlong Limestone deposit over an area of 7.33 Ha. in Mulieh Umlong Village, East Jaintia Hills district of Meghalaya State, submitted under Rule 16 (1) of MCR 2016, has been examined in this office on the basis of site inspection done on 18.11.2019 by Sri S. K. Mohapatra, Senior Mining Geologist.

The scrutiny comments made on the submitted draft report on Mining Plan along with Progressive Mine Closure Plan, are enclosed herewith as **Annexure-I**. In this regard you are advised to rectify the deficiencies and submit **final three hard bound copies of text & plans** along with the softcopy in **two DVD's** with requisite Bank Guarantee as financial assurance for the plan period as per Rule 27 of MCDR 2017 (if applicable), to this office within **15 (Fifteen)** days from the date of issue of this letter for further necessary action. Invariably the softcopy of the text & plans shall also to be sent to our e-mail id: ro.guwahati@ibm.gov.in. The text shall be in MS word format and plans in Auto CAD and JPG format.

The para-wise clarification indicating the manner in which the deficiencies have been attended should invariably be given while submitting the Review of Mining Plan. No further extension of time in this regard will be entertained and the document will be considered for rejection if not submitted within the above due date and deficiencies not attended properly.

Encl: As above.

Yours faithfully,



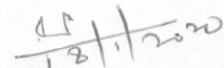
(P. K. Bhattacharjee)

Regional Controller of Mines

Copy to:

(1) The Controller of Mines (EZ), Indian Bureau of Mines, Kolkata – for kind information please

(2) Sri PK Sen, Qualified Person. Email- pkseanranchi@gmail.com



(P. K. Bhattacharjee)

Regional Controller of Mines

Scrutiny Comments on Draft report for Mining Plan with Progressive Mine Closure Plan of Mulieh Umlong limestone deposit over an area of 7.33 Ha. in village Mulieh & Umlong, Taluka-Khliehriat, Dist- East Jaintai Hills, Meghalaya of M/s. Amrit Cement Ltd., prepared by Sri PK Sen & submitted under Rule 16(1) of MCR 2016 & 23 of MCDR 2017.

Inspected By: S. K. Mohapatra (SMG)

Date of Inspection: - 18.11.2019

TEXT

Chapter: Introduction & Cover page

- 1.0 The sources of procurement of limestone for the cement plant which has been furnished in the tabular format needs to be detailed indicating the exact source.
- 2.0 A hard copy of the end use return of the cement plant for the last three (03) years to be enclosed with the document along-with monthly return for the end use cement plant for the current fiscal.

Chapter: Geology & Exploration

- 3.0 The surface profile of the applied ML area (topography) is not matching with the ground field conditions. The collar level of 3Nos. of boreholes drilled in the applied area varies from the shown collar levels of the respective boreholes in the geological plans & sections. The details are given below:-

| S.No | Borehole No. | Collar level as per the log | Collar level as shown in the geological plan & sections | Difference |
|------|--------------|-----------------------------|---|------------|
| 1 | 1 | 584 m | 553 m | 31 m |
| 2 | 2 | 595 m | 571 m | 24 m |
| 3 | 3 | 614 m | 620 m | 6 m |

- Therefore, the entire area needs to be re-surveyed & re-mapped and there after further work viz. Preparation of cross sections, estimation of resources/ reserves, preparation of year wise development plans etc needs to be carried out.
- 4.0 A fresh re-assessment of the reserves/ resources needs to be carried out. Details of the calculations in this regard to be provided duly supported with the geological plans & sections submitted and strictly complying with the requirements of The Minerals (Evidence of Mineral Contents) Rules 2015 in line to the scrutiny cited at sl.no. 3.
 - 5.0 The details of the resources blocked under different reasons may be spelt out categorically along with the details of calculations in this regard to be provided duly supported with the plans & sections in line to the scrutiny cited at sl.no. 3.
 - 6.0 The reserves & resources then needs to be categorised under the UNFC system properly citing the exact quantity & quality under different codes in line to the scrutiny cited at sl.no. 3.
 - 7.0 The threshold value shall be exactly as cited under the threshold notification of IBM.
 - 8.0 Level/ bench wise reserves/ resources established to be accordingly enclosed with the document in line to the scrutiny cited at sl.no. 3.

Chapter: Mining

- 9.0 The justification for consideration of the recovery factor may be enclosed with suitable supporting document.
- 10.0 The proposed production targets is not commensurate with the available reserves within the ML vis a vis the period of lease. After carrying out the job mentioned at sl.no. 3 of the scrutiny, the proposed production target may be reviewed keeping into consideration the

- available reserves, lease period, volume of wastes generated that needs to be accommodated in a very small area etc.
- 11.0 Stage wise development/ production proposal may be given in light of the comment given at sl.no. 10 along with a suitable plan for management of the wastes generated. The detailed calculation for the year wise production (level wise & section wise) to be enclosed with the report duly supported with relevant plans & sections.
 - 12.0 The details of the calculation of mining machinery to be revised in line to the revised production targets as cited at sl.no. 10.
 - 13.0 Extent of mechanisation needs to be recast properly duly supported with proper calculation sheet in line to the revised production targets as cited at sl.no. 10.
 - 14.0 The details furnished under conceptual plan, reclamation and rehabilitation & post mining land use etc need to be recast with respect to the revised 5 year development proposal & in line to the scrutiny comment given at sl.no. 3.

Chapter: Mine Drainage

- 15.0 It is observed from the key plan that a major drainage exists towards the south east portion of the lease. Therefore, a series of check dams/ garland drain are required to arrest the solids expected to be discharged from the soil dumps during heavy rains; which is proposed to be located in the extreme south eastern portion of the lease. The proposed likely drainage after dumping may be thought off and a proper drainage system to be proposed with check dams/ garland drains alongwith the already envisaged retaining wall to arrest the suspended solids from going into the local major drainage.

Chapter: Stacking of mineral rejects & disposal of waste

- 16.0 The height of the soil dump at the end of 1st year itself is proposed to be 21m (in single terrace from adjoining level) moving upto 34 m at the end of 1st plan period. Such individual terrace height of 21m is not accepted for reasons already cited at sl.no. 15.

Chapter: Others

- 17.0 The name, address, qualification & length of experience of the mining engineer appointed for the applied area, if any, may be given.

Chapter: PMCP

- 18.0 The tree density of the core & buffer zone must be cited in the report.
- 19.0 A table may be added showing the location of proposed AAQ, Noise quality, Water quality monitoring locations.
- 20.0 The year wise details for the proposed plantation to be carried out must be enclosed in a tabular format indicating the species to be planted, no. of saplings to be planted, location of proposed plantation & area covered.
- 21.0 The yearwise reclamation/ rehabilitation proposal needs revision in light of the comments cited at sl.no. 11 and 16 above.
- 22.0 The provision of financial assurance under rule 27(1) of MCDR 2017 is not applicable for mining lease granted under section 10A(2)(b) of MMDR Act where MDPA needs to be signed by the applicant & the State Govt. Endorsement to this effect is required to be certified by the State Govt. Accordingly, exact & correct information needs to be furnished in this regard at page no. 57 of the document. The significance of performance security cited in the draft document is not clear.

Consents/ Annexure/ General remarks:

- 23.0 Original copy of Consent letter/Undertaking/Certificates needs to be furnished.
- 24.0 Some of the annexure are obscure. Legible copy of annexure needs to be submitted.
- 25.0 Re- assessed resources/ reserves as per the UNFC system needs to be reported in the feasibility/ pre-feasibility report to be enclosed with the report.
- 26.0 The borehole logs i.r.o all the drill holes present within the ML area must be enclosed and duly signed by the Geologist of the mine.

PLATES:

General:

1. The key plan, surface plan, environment plan & FA plan shall be signed by a mine surveyor.
2. The geological plan & sections shall be signed by the geologist.
3. The legends/ index shown in all the drawings must be properly correlated with all the corresponding drawings.

1.0 Key plan:

- 1.1 Key plan shall be prepared strictly as per the extant provisions specified under rule 32(5)(a) of MCDR 2017.

2.0 Precise area plan of the ML area duly authenticated by the State Govt. needs to be enclosed

3.0 Surface plan:

- 3.1 This plan needs revision in line to the comments specified at sl.no. 3.
- 3.2 Map needs to be updated true to the existing ground field positions.
- 3.3 The position of the already drilled boreholes must be marked on the surface plan.

4.0 Geological plan/ sections:

- 4.1 This plan needs revision in line to the comments specified at sl.no. 3.
- 4.2 The geological plan & x-section needs revision on account of all the above reasons as well as the comment cited at sl.no. 3 above.
- 4.3 The index shown for sandstone is not matching in the geological plan.

5.0 Mine development/ production plan & sections/ dump plans & sections/ conceptual plan/ sections:

- 5.1 The yearwise development section must be revised after incorporating the correction cited at sl.no. 3 & 10 above.
- 5.2 The immediate last & proposed bench position must be clearly reflected in all the development sections. However the immediate last position must be shown on a lighter shade.
- 5.3 The immediate last & proposed bench position must be clearly reflected in all the development plans too. However the immediate last position must be shown on a lighter shade.
- 5.4 The Conceptual plan and sections also needs to be updated i.r.o the comments as cited at 3 & 10 above.

6.0 Environment plan:

- 6.1 Environment plan shall be prepared strictly as per the extant provisions specified under rule 32(5) (b) of MCDR 2017.

