

MAWLONG LIMESTONE MINE/ MININ GPLAN INSPECTION REPORT

INSPECTED BY: SK MOHAPATRA

DATED: 26.3.2018

TEXT

- 1.0 The ML deed was executed on 13.3.2006 and approval of the initial mining plan was on 5.5.2005. Thereafter, no review of mining plan has been submitted to IBM for its approval. Therefore the present document submitted is review of the mining plan for the period 1.4.2016 to 31.3.2021. Also, as almost both the financial years 2016-17 & 2017-18 has lapsed as on date i.e. 26.3.2018, therefore the proposal shall be for the period 1.4.2018 to 31.3.2021.
- 2.0 A copy of the authenticated lease plan from the state government shall invariably be submitted along with this document with boundary pillar co-ordinates.
- 3.0 The latitude/ longitude of the boundary pillars shall be exactly as specified in the authenticated lease plan.
- 4.0 At page no. 16 of the submitted document, it has been specified that the submitted document is the modification proposed in the approved mining plan. The same may be corrected in line to the advice stated at sl.no. 1 above.
- 5.0 At page no. 17 of the document at sl.no. 6.1.2 (drainage pattern), the ML has been specified as applied area. The same may be corrected.
- 6.0 At page no. 20 of the document, the name of DGM Assam & Meghalaya alongwith GSI (NER) has been specified as the name of prospecting/ exploration agency. But, no details of the earlier exploration carried out, if any by these agencies have been detailed. A copy of the exploration report of these agencies, if any may be enclosed.
- 7.0 The last approved mining plan vide letter dtd. 5.5.2005, depicts exploration carried out by 4 No. of pits & 3 No. of trenches. But the same has not be reflected in the present document being submitted. The ground factual position w.r.t exploration carried out may be given in a tabular format.
- 8.0 At page no. 23, table no. 6.4.5, depth in meters for different axes of exploration has not been reported.
- 9.0 The proposed exploration plan shall be given w.e.f 2018-19, as it is reflected from the submitted document that no exploration has been carried out till date. Summary of the proposed exploration to be carried out should be depicted indicating the details of location of boreholes, proposed depth etc in a tabular format. The document does not spell about any time bound program of exploration during the next 5 years period. A firm time bound exploration program may be given so as to delineate the limestone extent (lateral/ depth wise) for the entire ML area.
- 10.0 A fresh re-assessment of the resources/ reserves needs to be carried out as per the extant provision given in 'Evidence of Mineral Contents Rules 2015'. Level wise & section wise resource/ reserve figures to be reported. A fresh categorisation of resources/ reserves as per the UNFC system shall be thereafter reported after carrying out the above stated re-assessment of resources. A feasibility study report shall be annexed for the UNFC categorisation of reserves/ resources. The life of the mine may also be re-visited after carrying out the above study.
- 11.0 A table indicating the boundary extents of the year wise proposed pit & dump, its floor & crest reduced levels etc should also be given in a tabular format.
- 12.0 The no. of shifts & period of shifts in which the mine workings will be carried out needs to be stated.
- 13.0 The type of explosives proposed to be used for blasting & mechanism for charging / firing operations shall be described. A copy of the magazine licence to be enclosed.
- 14.0 The details of construction of check dams/ settling tanks etc shall be given along with their design in the chapter on mine drainage. The mode of disposal of surface run-off water shall be discussed indicating the schematic route showing its discharge with

- proposed provisions of check dams/ settling tanks/ water quality monitoring stations etc. The proposal shall also to be shown in the reclamation plan.
- 15.0 The flow sheet indicating the limestone sizing/ loading shall be given along with material balance & physical size parameters. The mechanism of weigh-ment of limestone to be reported. Quantity of water required per day for all mining activities has been reported as 1 KL/ day but the source of drawing such water has not been specified.
 - 16.0 The year wise afforestation program which has been spelt out at later years to be brought to the year 2018-19 & onwards.
 - 17.0 A risk assessment report along-with disaster management plan of the mining unit shall be enclosed duly approved by the management of the mine/ competent authority.
 - 18.0 An emergency preparedness plan duly approved by the management of the mine/ competent authority to be enclosed.
 - 19.0 No definite year wise proposal has been given for reclamation/ afforestation/ management of the mine/ existing refuse dumps. Definite & concrete proposal needs to be proposed for the above.
 - 20.0 The area considered as fully reclaimed / rehabilitated to be re-checked and the total land usage at the end of 5 years to be re-calculated & so on the financial assurance required.
 - 21.0 All pages of the text shall be signed by the qualified person.

ANNEXURE:

- 1.0 Copy of the lease deed (all pages).
- 2.0 Proof of identity & address of the owner of the mine.
- 3.0 An undertaking from the owner on commencement of mining operations only after getting the permission from all the concerned statutory bodies as well as for carrying out the proposed time bound exploration program.
- 4.0 Copy of the DGMS permission under rule 106(2) (b) of MMR 1961.
- 5.0 Copy of the surface water drawl permission taken from the competent authority.
- 6.0 Copy of the environment clearance letter.
- 7.0 Copy of the consent to operate from the state pollution control board.
- 8.0 Copy of the surface rights acquired.
- 9.0 Copy of the magazine licence.
- 10.0 Copy of all the violations raised from IBM/ DGMS/ MoEF&CC/ SPCB with compliance status during the last period of review.
- 11.0 Colour photographs of all lease boundary pillars showing the co-ordinates.
- 12.0 Copy of the surveyor's certificate to be enclosed.
- 13.0 All pages of the annexure shall be signed by the qualified person and a list of annexure to be enclosed.

PLATES:

1.0 General:

- 1.1 The name of the nominated owner shall be invariable given in all the plates of the document.
- 1.2 The period of review of the mining plan shall also be given in all the plates of the document.
- 1.3 The key plan/ surface plan / environment plan & financial assurance plan shall invariably be signed by the surveyor of the mine along-with the mining engineer employed in the mine.
- 1.4 The geological plan/ sections shall also be duly signed by the geologist of the mine.
- 1.5 The surface plan shall also to be signed by the manager of the mine.
- 1.6 All plates shall be signed by the Qualified person.

2.0 Key plan:

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

3.0 Authenticated lease plan duly certified by the state government to be enclosed.

4.0 Surface plan:

- 4.1 The nomenclature of the boundary pillars shall be exactly as per the authenticated lease plan certified by the state government.
- 4.2 The present surface rights acquired area within the ML to be indicated.

5.0 Geological plan/ sections:

- 5.1 The pit profile shall be updated in the geological plan/ sections along with the exposed geological features.
- 5.2 UPL shall be shown in the geological plan/ section.
- 5.3 UNFC shall be re-visited after carrying out the re-assessment/ feasibility study and accordingly to be shown properly in the plans/ sections.
- 5.4 The geological plan/ section to be signed by the geologist of the mine.

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

- 6.1 UPL shall also to be shown in the plan/ sections.
- 6.2 The mine development / production plan shall be re-produced after re-assessment of the reserves/ resources figures and updation of the geological plans/ sections.

7.0 Environment plan:

- 7.1 Environment plan shall be prepared strictly as per the extant provisions specified under rule 32(5)(b) of MCDR 2017.
- 7.2 All existing surface features to be shown in the environment plan.
- 7.3 Existing afforestation & reclamation carried out, if any, shall be shown.
- 7.4 Contours at larger intervals should be shown in the area falling between 60m & 500m boundary. Also the contours within the entire ML area need to be shown.

8.0 Reclamation plan/ sections:

- 8.1 No reclamation plan has been submitted. The proposed plantation & reclamation shall be indicated in a tabular form indicating the proposed year of carrying out the above said activity/ area to be covered (ha.)/ no. of saplings to be planted/ species of saplings to be planted along with location of the activity. The table should be given separately for reclamation & afforestation program proposed.

