



भारत सरकार / Government of India

खान मंत्रालय / Ministry of Mines

भारतीय खान ब्यूरो / Indian Bureau of Mines



क्षेत्रीय खान नियंत्रक का कार्यालय / OFFICE OF THE REGIONAL CONTROLLER OF MINES  
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फाईल संख्या File No: 614(2)/MP-B-317/2011-DDN

देहरादून, दिनांक 08.04.2019

सेवा में To श्री एस0 के0 सोनी, भूवैज्ञानिक,  
 T-14-B,  
 शास्त्री नगर,  
 अजमेर (राजस्थान)  
 sksoniajmer@gmail.com

विषय/ Sub : Submission of Modified Mining Plan with Progressive Mine Closure Plan in respect of Chowki Mrigwal Limestone mine over an area of 3.9 hectare in Village-Chowki Mrigwal, Tehsil-Paonta Sahib, District -Sirmour of HP State, submitted under Rule 17(3) of Minerals (Other than Atomic & Hydro Carbons Energy Minerals) Concession Rules, 2016 & 23 of MCDR 2017.

संदर्भ/Ref. Your letter No-Nil dated Nil received on dated 16.02.2019  
 महोदय/ Sir,

This office is in receipt of two copies of the above-mentioned draft Modified Mining Plan including Progressive Mine Closure Plan on 10.01.2019. On examination of the same the discrepancies / deficiencies observed have been listed in annexure.

You are advised to correct the submitted Mining Plan including Progressive Mine Closure Plan as per deficiencies /discrepancies pointed in the enclosed annexure as scrutiny comments and submit 3 fair copies of the Modified Mining Plan including Progressive Mine Closure Plan within 15 days from the date of issue of this letter after corrections in hard bound copies (no spiral binding). If the fair copies of Modified Mining Plan including Progressive Mine Closure Plan will not be submitted within stipulated time, final action will be taken as per rule. Two CDs of the fair Modified Mining Plan including Progressive Mine Closure Plan may also be submitted including text, plates and annexures. On receipt of additional comments from State government, it shall be communicated to you subsequently. In case if it is necessary to incorporate the additional information, the details of the same should be given along with page numbers.

You are further advised to prepare the fair copies carefully and ensure that it is correct in all respect. Preferably use of paper on both the side should be made. If again deficiencies are observed then final action will be taken by this office without returning the copies for correction. This issues with the approval of competent authority.

Encl: as above.

भवदीय Yours faithfully,

(एस.सकलानी S Saklani)

सहायक खनन भूवैज्ञानिक Assistant Mining Geologist  
 कृते उप खान नियंत्रक एवं प्रभारी अधिकारी For DCOM & Officer In Charge  
 भारतीय खान ब्यूरो Indian Bureau of Mines

प्रतिलिपि सूचनार्थ प्रेषित :-

- 1- खान नियंत्रक (उत्तर), भारतीय खान ब्यूरो, उदयपुर ।
- 2- मै0 गिरि लाईम एण्ड केमिकल्स प्रो0 श्री अरुण ग्रोवर, म0 न0 - 21, वार्ड न0 -3, बट्टी नगर, पावटा साहिब, जिला-सिरमौर (हि0प्र0) E-mail : grover.arun@ymail.com
- 3- उप खान नियंत्रक एवं प्रभारी अधिकारी, भारतीय खान ब्यूरो, क्षेत्रीय कैम्प कार्यालय, एनसीआर, नई दिल्ली ।



सहायक खनन भूवैज्ञानिक Assistant Mining Geologist  
कृते उप खान नियंत्रक एवं प्रभारी अधिकारी For DCOM & Officer In Charge  
भारतीय खान ब्यूरो Indian Bureau of Mines



**Scrutiny comments indicating deficiencies in respect of submitted Modified Mining Plan with PMCP in respect of Chowki Mrigwal Limestone Mine over an area of 3.9 hectares near villages- Chowki Mrigwal, Tehsil- Paonta Sahib , District –Sirmour (H.P.) State submitted by M/s Giri Lime and Chemicals , Prop. Shri Arun Grower under rule 17(3) of MCR 2016 and 23 of MCDR ,2017 for the period of 2019-20 to 2020-21.**

### **General**

1. The lease area should be conversant from Bigha ,Biswa to hectare. The extra coloumn should be add for this purpose in same table. It should be modified in text and plates wherever required with conversion factor duly authenticated.
2. Cover page- Address of the lessee is not given as per IBM registration.
3. Index- Heading of the chapter are not as per guidelines.
4. All the analysis reports are very old and will not be considered.
5. No document in support of lease period as mentioned on cover page.
6. Annexures are not attached as per IBM manual/guidelines.
7. Surface area plan is not as per statute guidelines.
8. Lease corner points/ coordinates (Lat & Long) to be authenticated by State government.
9. Page 4- Copy of lease agreement- No document is enclosed in support of this.
10. Page 5- Coordinates are not matching with the coordinates mentioned in previously approved mining plan.
  
11. All the supporting tables, figures, annexure furnished in the reports should be marked proper numbering and subsequent nomenclature. Table number should be given along with every table.
12. A CD covering the entire document and plans should be enclosed at the time of final submission. An undertaking in this regards by the QP that CD contains same documents & plates as submitted by hard copy of document & text should be given.
13. It may be clarified whether there is any National Park, Forest Sanctuary etc within a distance of 10 Km from lease area. If so, the copy of order permitting mining operations in the lease area obtained from competent authority should be enclosed.
14. The DILR Map/ Revenue Map authenticated by district authority showing the Lease pillar coordinates to be enclosed.
15. The sufficient number of colored photographs of the area showing existing status of the lease area, benches, boundary pillars, Mines office, etc may be submitted with proper captions.
16. Quantity of Mineral production- Figures to be given upto March 2019.

### **Chapter-1 & 2: General & Location and Accessibility:**

17. A boundary pillar of ML area should be connected with three permanent ground control points. In this regard CCOM's Circular dated 21-9-2011 may also be followed.
18. Details about signing authority, photo id documents enclosed in this regard are not discussed.
19. The Cadastral Map (Khasra plan) with superimposed lease boundary & revenue details of survey number duly authenticated by State Government authorities had not been submitted for verification of land occupancy.



### **Chapter-3: Details of approved MP/SOM:**

20. The lease area should be conversant from Bigha ,Biswa to hectare. The extra coloumn should be add for this purpose in same table.
21. Page-6- Para-3.3- The mining operation were temporary closed from 17.7.2018. The reason for the same should be incorporate.
22. Brief outcomes in respect of proposals Vs compliance positions in respect control of dust, Noise & Ground vibration, etc. may be given.
23. Page-9-Para P- Enclosed bank guarantee is not legible.
24. Proposed and actual plantation – reason for deviation is not given.
25. Page 10- Item 3.6- change it as per MCDR 2017. Reason for modification is to be given.

### **Chapter-Part-B: Geology and Exploration:**

26. The drainage pattern as the seasonal stream flow in the area to be discussed.
27. In Para 1.c) on Page 13; the description of the different type of mineralization in the area is to be discussed thoroughly. The basis of thickness of separate parting of limestone 15-62 m is not discussed.
28. Page-18- Tab-17-The justification of reserve considered upto 1315mRL should be given with supporting plan and section. The UNFC reserves could not be carried simply deducting production from the previously estimated mineral reserves by conventional method. Hence mineral reserves need to be re-estimated as fresh with due regards to UNFC guideline. The mineral reserves under UNFC code should be considered as per guideline and detailed exploration carried out.
29. Page-19- Tab-21- The calculation of balance reserve should be reconciled. How the production has been deducted directly from the limestone reserve.
30. The location of the sample taken of the limestone from the lease area is to be discussed.
31. The latest chemical analysis of the cement grade limestone from NABL laboratory is to be attached.
32. Exploration proposal should be given as per rule 12 of MCDR 2017.
33. Page 20- area under different G axis be given. Similarly update the reserves upto March 2019.

### **Chapter-2: Mining**

34. Page-21-Basic mine design parameters like bench height, width (at ultimate and during working), face slope angle, ramp gradient etc. are not given.
35. Under existing method of excavation design parameters on some of the important aspects like number of shifts being operated, mines haul road gradient, machinery deployed & its capacity, design parameters, etc. are not addressed.
36. Page no-22- The basis of bulk density of limestone is considered as 2.25 T/m<sup>3</sup> should be discussed.



37. Page-22-Table-25- The proposal of mining as mentioned under the para are not reflecting with the plan and sections. Stripping ratio is not mentioned clearly including generated OB/SB/IB. Moreover, the reference of plates with section is also not mentioned.
38. Page-25-The reference of table of yearwise proposal of limestone mining has not been given.
39. Page no. 26 –The location of the check dam is not proposed.
40. Page no. 26- Para no. 2 (f): Conceptual mining: Vital detail pertaining to life of the mine , ultimate pit size and post mining scenario and reclamation- rehabilitation aspect have not been discussed properly.
41. Page no. 26 -The conceptual mining plan should be prepared taking into considering of some important aspects like basic & long term design features of mine covering exploration, mine development, option exploitation & utilization of the mineral, waste and sub grade mineral management and environmental aspects.
42. Page-28-Manpower requirement under operation staff should be given in terminology like skilled, Semiskilled and highly skilled.

**Chapter3:- Mine Drainage**

43. On page no. 29 in Para 3 b): Existing maximum and minimum working level is not mentioned in form of mRL.
44. Arrangements of pumping rain water during rainy season are discussed. Further, annual rainfall and likely quantity of rain water flow through the lease area not addressed. Source of reporting minimum & maximum depth of water table of the ML area not addressed.
45. On page no. 29, in Para 3d): There is a dry seasonal nalla passing through the lease area, is to be developed in such a manner that mine working is not affected during the rainy season.

**Chapter 4:- Stacking of Mineral rejects/Sub-grade/Disposal of waste:**

31. In Table 32 on Page 30 on Para 4 a): Top soil is proposed to be generated during next five years. The storage of and utilization of top-soil is to be discussed properly.

**Chapter-8: Progressive Mine Closure Plan:**

32. On page 34- table-36-The up dated present land used pattern should be given.
33. For air quality specific area of monitoring including core and buffer zone should specified. Further, number of AAQ monitoring stations in core as well as in buffer zone should be furnished in chapter and locations of the same should be shown EMP.
34. On Page 49- Para 8.6: The financial Assurance table & present land used details & area to be utilized in plan period needs to be checked thoroughly & there should not be any deviations. The detail calculation should be modified based upon above scrutiny.
35. The Xerox copy of financial assurance stated should be enclosed. The period of the financial assurance should be co-terminus to the proposals period. Original BG may be directly submitted by the Bank to the RCOM.



36. The sufficient number of colored photographs of the area showing existing status may be submitted with proper captions.
37. Give details of Bank Guarantees like date of issue, Bank, validity and amount etc.

**Feasibility Report:**

38. The feasibility report of the mine had not been prepared as per guideline and not acceptable.

**Plates:**

39. Following general discrepancy has been observed in various plates;
40. The index is incomplete & defective, specific colours/symbols as per MMR'61 need to be used for different features so that features indicated over the plan may be interpreted technically and in better way. Red colored strings for UPL as well as for other conventions is making the plan cumbersome and impede the study/reading of the plan.

**41. Key Plan: plate No.2**

- (i) The surface topography, direction of flow of water streams/ courses, villages with population, hutments etc. have to be marked in this plate.
- (ii) The other ML/PL leasehold areas falling within 5 Kms should be marked with their identifying details.
- (iii) The direction of the seasonal nallah flowing inside mining lease is not marked in key plan.
- (iv) Lease area has not been connected with three fixed reference points by DGPS/GPS.
- (v) Except environment plan, nothing should be given out side the ML area.

**42. Surface Plan:(plate-4)**

- (i) Indication in the index should be shown correctly.
- (ii) Statutory barriers 7.5m zone should be shown in all plans.
- (iii) Location of the existing dumps not shown in plan.
- (iv) MMR Conventions are not used in preparation plan.

**43. Surface Geological Plan and section : plate no. 5**

- (i) Ultimate pit limits are not marked in the plan.
- (ii) The lease area may be connected with three fixed reference by use of DGPs/GPs.
- (iii) Statutory barrier of 7.5 meter as green belt not marked on the plan.
- (iv) Strike and dip of rock types encountered in the area not marked distinctly and values are also not expressed for the same.
- (v) Longitudinal section covering all mineralization of the area should be drawn and index should be corrected.
- (vi) All points should be cover in plan and section those are discussed under relevant para of same scrutiny letter.
- (vii) Redraw the sections as per UNFC classification. There should be only one table.

#### **44. Year wise Development Plan: 6a and 6b**

- (i) Here the meaning of the “plan after 2019-20 and 20-21” is not clear.
- (ii) First year development plan proposal is not clearly shown in plate 6b.
- (iii) Grid line, approach road, check dam & old plantation clearly marked on plate no.6a to 6b.
- (iv) Existing benches RL not shown properly. It should be marked on all along the bench so as to understand the profile of individual bench.
- (v) Ultimate pit limit, slope of the faces has not been shown.
- (vi) Waste dump proposals are wrong and not tenable. No sections are given. It is to be reviewed in conceptual plan.
- (vii) Proposal made out side ML area will not be considered and QP should not give any such proposals which are evident in all the plates.
- (viii) Development plans are not correct. Proposals for waste dump are not correct.
- (ix) In the yearwise development plan it is mentioned “ after 2020-21. This is not correct.
- (x) Geological section are not correctly drawn. How dump proposals are given in 7.5 mtrs barrier. Such proposals will go outside the lease. Where dump has gone. See plate 4,6,9, 10 etc.
- (xi) Lat and Long not given/those given in text is not matching with layout.
- (xii) Lease corner nomenclature has been changed in the plan. Also not matching with layout w.r.t previous approved mining plan.
- (xiii) Certification of the plan is incomplete.

#### **45. Environment Plan: Plate no .7**

- (i) Every year it has proposed plantation marked on Plan.
- (ii) It has not been prepared as per rule 32(5)(b) of MCDR'2017.
- (iii) The details of area falling within 60m and 500m zone not described or marked in detailed manner or boundary pillar.
- (iv) The area of the village with its name & population should be marked in this plan instead of simply marking village.
- (v) The monitoring stations of air, water & noise quality survey is not shown on the plan. Location of monitoring stations should be judiciously selected with relation to predominant wind direction, water flow direction & degree of likely site specific impact of various mining operations as per direction of advance etc.
- (vi) Environment plan is not correct. Where is grid.

#### **46. CONCEPTUAL PLAN(Plate-8):**

- (i) Plan should be updated & modified as per above scrutiny.
- (ii) Conceptual plan has not been prepared as per the guidelines. While preparing the plan not considered the statutory barriers like 7.5m green belt, position of the existing nallah, Ultimate pit limits, bench configuration, etc.



(iii) Conceptual plan is not correct. Sections are not given.

**47. FINANCIAL AREA ASSURANCE PLAN(Plate-9): -**

- (i) Plan should be updated & modified as per above scrutiny. Calculation is not appearing correct.
- (ii) FAAP is not as per manual/guidelines. Financial area assurance should be recalculated. Area under excavation (0.906 hectares) and 0.076 hectares not appearing correct.

**48. Reclamation Plan: Plate no.10**

- (i) Some cross and longitudinal section should be draw covering the proposed protective working.
- (ii) Proposed bench development not marked distinctly on the plan. Haulage routes have not shown without which the plan cannot be considered.
- (iii) The modifications suggested in the text should also be incorporated in this plate.
- (iv) Protective measures for stabilization & rehabilitation of dumps, Environmental monitoring, and monitoring stations as proposed in the PMCP not shown on the plan.
- (v) The year wise completion status of proposed protective works should be incorporated in this plate.
- (vi) Green belt development in prominent direction is not given. Proposals are not depicting in the text.

**Annexures:-**

- (i) The copy of original valid BG of extended period should be submitted in the form of annexure.
- (ii) The further submission of document should be properly binding having sufficient strength and the plates are properly folded so that they can be accessed easily.

**Note: All the corrections pointed out in the text and plates shall also be attended invariably.**