

SCRUTINY COMMENTS ON DRAFT REVIEW OF MINING PLAN IN RESPECT OF SURJABASA LIMESTONE MINE (16.70 HA) IN VILLAGE SURJABASA, DISTRICT SINGHBHUM WEST, STATE JHARKHAND OF M/S NARSINH HARJI SUBMITTED UNDER RULE-17(2) OF MINERALS (OTHER THAN ATOMIC AND HYDRO CARBONS ENERGY MINERALS) CONCESSION RULES, 2016.

TEXT

1. The consent letter / undertaking /certificate from the applicant, the certificate from the person qualified to prepare the review of mining plan are not as per the IBM appraisal of mining plan, 2014.
2. The DGPS surveyed map/report has not been submitted along with the document in compliance to CCOMs circular No.2/2010 and its addendum dated 21/09/2011 and 11/06/2014 regarding geo-referenced cadastral map.
- 3.i) On the surface and other plans submitted along with the document, the name/number of corner boundary pillars mentioned as ML1, M 2 and ML3 etc.
No boundary pillars of the mining lease area with their latitude and longitude as mentioned in the surface plan were observed during the inspection of the mine. It was reported that the DGPS survey has been completed but the boundary pillars as per the DGPS survey have not yet been maintained as per the provision of the Rule 12(v) of Minerals (Other than Atomic & Hydro Carbons Energy Minerals) Concession Rules, 2016. It was also observed that the numbering of boundary pillars have changed as per the DGPS survey. Therefore the numbering of boundary pillars are to be corrected and a fresh surface plan to be prepared as per the DGPS survey.
- ii) An undertaking by the lessee should be incorporated in the document to erect all the boundary pillars with their latitude and longitude as per the DGPS survey.
- iii) The photographs of two boundary pillars enclosed in the document are not observed during the inspection. Sufficient numbers of photographs of the boundary pillars specially near quarry no. 2 and western side of the lease area (Gumuagara nala side) as per DGPS survey with their latitude and longitude are to be enclosed in the document.
- iv) Present photographs of the quarries (quarry no. 1 and quarry no. 2) with caption are to be enclosed in the document.

4. Preface:

The District Mining Officer, Singhbhum West issued a letter vide letter no. 94/M dated 23/01/2017 to submit some documents regarding extension of lease period, but the letter of extension of lease period issued by the District Mining Officer, Singhbhum West has not been enclosed.

5. Chapter 1: General:

(f) Name of recognized person: Rule 22C of MCR, 1960 and rule 42 of MCDR, 1988 may be corrected in view of the Minerals (Other than Atomic & Hydro Carbons Energy Minerals) Concession Rules, 2016 and the Mineral Conservation and Development Rules, 2017.

6. Chapter 2: Location and Accessibility:

(b) Details of applied / lease area with location map:

- i) Land details should be given in hectare as per format.
 - ii) Topo sheet no. with latitude and longitude: Latitude and Longitude of the corner boundary pillars should be given as per DGPS survey.
- (c) General location map / Lease map:
- i) The lease area map is not legible. A legible map of the lease area may be submitted.
 - ii) The details of plot numbers within the mining lease area of 16.70 ha are missing in the lease deed. Same may be submitted.

7. Chapter 3: Details of approved MP / Scheme of Mining:

Item 3.3 (a): Exploration: 5 numbers of boreholes & 8 pitting has been done during 2011-12. Liho logs of bore holes along with analysis report from NABL accredited laboratory has not been submitted. Same may be submitted.

Item 3.3 (c): Exploitation: Production target of iron ore has been mentioned. Should be corrected.

Item 3.4: Status of compliance of violation pointed out by IBM: (a) Under the date of compliance and present status, date of reply of violation letter has been taken as violation already complied. May be corrected.

(b) Under Sl. no. 2 & 3, show cause notice issued vide letter dated 17/01/2014 and 28/10/2013 mentioned as order of suspension of mining operation. May be corrected.

Item 3.5: Under period of discontinuation of mining operation reason mentioned as suspension order imposed by IBM is not correct.

8. Part A: Geology and Exploration:

(e) Details of prospecting / exploration already carried out:

i) It is mentioned that detailed prospecting operation of the mining lease area carried out by 5 boreholes and 8 pitting during 2011-12. In the plate no. IV (Geological plan) it is observed that location of 8 boreholes (BH-1 to BH-3, BH-A to BH-E) marked under 'Existing borehole'. May be explained.

ii) Out of 5 boreholes done during the year 2011-12, details of 3 boreholes (WDH-1 to WDH-3) only given in the annexure XVI. Litho log of all the boreholes should be submitted.

iii) Cao percentage of borehole samples are not given in annexure XVI.

iv) Locations of 8 pitting mentioned in the text are not shown in the plate no. IV (Geological Plan).

iv) The NABL certificate of accreditation along with scope of accreditation of the laboratory 'Sun-Tech' where the limestone samples have been analysed is to be enclosed in the document.

v) In page no. 1-V, typing error 20011-12 may be corrected.

9. Mining:

(c) The waste to be generated during two years proposed to use for backfilling the quarry. But it has not been mentioned in the text whether the quarry has been reached its ultimate depth.

10. Others:

i) Employment potential: Under the table showing proposed employment potential in the area, 2 dumper operators have been proposed whereas 3 to 6 dumpers are to be required as per the calculation. Same may be corrected.

11. PMCP:

i) Summary of year wise proposal for item no. 8.3 (2018-19): During the year plantation has been proposed in the nala barrier of the western side of the lease area. It has been mentioned under item 'c' that plantation shall be done at safety zone area. Same may be corrected.

12. Financial Assurance:

Copy of the Bank guarantee of financial assurance for the period of the review of mining has to be enclosed in the document. The financial assurance submitted earlier if any should also be mentioned in the text.

PLATES:

1. Surface Plan (Plate no. 3):

i) No boundary pillars with latitude and longitude as shown in the surface plan were observed in the mine during the inspection. The numbering of boundary pillars is to be corrected in the surface plan as per the DGPS survey and to be prepared afresh.

- ii) The grid of the plan should be in UTM mode and not in local grid since DGPS survey of the area has been carried out. The survey points should be shown on the plan along with TBM.
- iii) Gumuagara nala is flowing in the western side of the lease area. A barrier of 15m from the nala has shown in the index whereas in the plan nala area has also been marked as nala barrier. The other end of Gumuagara nala alongwith the lease boundary and nala barrier should be demarcated clearly. All the plans submitted alongwith the document should be corrected accordingly.
- iii) The nala has also been marked with the nala barrier.

2. Geological Plan (Plate no. 4):

- (i) The UTM grid value should be given instead of local grid value.
- ii) In float, quartz & sand stone / quartzite no dip strike symbol should be given.
- iii) Dip strike symbol in limestone exposure in shale as shown in the plan should be given.
- iv) Foliation trend should be given for phyllite exposed area as shown in the plan.
- v) Prospecting of ML area was carried out by putting 5 nos of boreholes and 8 pitting. In the Geological plan it is observed that location of 8 boreholes (BH-1 to BH-3, BH-A to BH-E) marked under 'Existing borehole'. Same maybe explained.
- iv) Details of 8 pitting mentioned in the text are not shown in the Geological plan.

3. Geological section: (Plate no. 5):

Section along 100W: BH-C, PBH-3, PBH-6 and PBH-9 are not shown.

Section along 150W: PBH 8 and existing plantation are not shown. 7.5m safety zone is waterlogged.

Section along 200W: PBH 4 and PBH-7, existing plantation are not shown. 7.5m safety zone not matching with plan.

Section along 300N & 400N: PBH-7, PBH-6, PBH-5, PBH-10 and PBH-9 are not shown.

Section along C-C': RL of backfilling, ore stack and safety barrier in Q-1 are not shown.

4. Development plan & section (2017-18): Plate no. 6A:

RL of waste dump, RL of ore stack and water logging area in Q-1 are not shown in section C-C', B-B' and A-A'.

5. Development plan & section (2018-19): Plate no. 6B:

RL of waste dump, RL of ore stack and water logging area in Q-1 are not shown in section C-C', B-B' and A-A'. In section C-C', backfilling area of 2018-19 not matching with the plan.

6. Backfilling plan & section: Plate no. 7:

RL of ore stack and water logging area in Q-1 are not shown in section C-C' and B-B'. In section along C-C', backfilling area of 2018-19 not matching with the plan. Section line C-C' is not from the lease boundary but safety barrier of 7.5m shown.

7. Conceptual section: Plate no. 9:

RL of waste dump and ore stack in section along 100N, existing plantation in section along 150W, proposed and existing plantation in section along 200W and 250W and safety barrier of 7.5m in section line along C-C' not shown.

7. Conceptual section: Plate no. 11:

RL of waste dump and plantaion at ultimate stage in section along 100N, existing plantation in section along 150W, proposed and existing plantation in section along 200W, plantation at ultimate stage in section along 250W, section along A-A', B-B' and C-C' are not shown. Safety barrier of 7.5m in section line along C-C' not shown.
