



भारत सरकार
खान मंत्रालय
भारतीय खान ब्यूरो
क्षेत्रीय कार्यालय, रायपुर

दूसरी मंजिल, जी.एस.आई.फील्ड प्रशिक्षण केन्द्र, महालेखाकार आफिस कोम्प्लेक्स,
पोस्ट-विधानसभा, रायपुर (छ.ग.)- 492005, फोन 0771-2282530.

संख्या: दुर्ग/चूप/खयो-1150/2018-रायपुर

दिनांक - 20.04.2018

प्रेषित : श्रीमति मोहिनी देवी मिश्रा,
पति श्री टी आर मिश्रा,
48/3, नेहरू नगर (ई) भिलाई,
जिला - दुर्ग, छत्तीसगढ़ - 490020

विषय: खनिज (परमाणु और हाइड्रोकार्बन ऊर्जा खनिजों से भिन्न) रियायत नियम 2016 के नियम 17(3) एवं खनिज संरक्षण एवं विकास नियमावली, 2017 के नियम 23 के अंतर्गत प्रस्तुत निकट ग्राम - नन्दिनी खुन्दिनी, तहसील - धमधा, जिला - दुर्ग (छग) में स्थित नन्दिनी खुन्दिनी चूना पत्थर खान, क्षेत्रफल - 1.92 है.) की खनन योजना का उपांतरण सह उत्तरोत्तर खान बंद करने की योजना की प्रस्तुति।

महोदय,

आप द्वारा प्रस्तुत उपरोक्त क्षेत्र की खनन योजना का उपांतरण सह उत्तरोत्तर खान बंद करने की योजना की जाँच व खान निरीक्षण के उपरांत इसमें कमियां/त्रुटियों पाई गई हैं। संलग्नक में दर्शाई गयी कमियों/त्रुटियों को सुधारते हुए खनन योजना का उपांतरण सह उत्तरोत्तर खान बंद करने की योजना की (3) तीन स्वच्छ बाउण्ड प्रतियां एवं 2 सॉफ्ट कॉपी (CD) इस पत्र के जारी होने की तिथि से पंद्रह (15) दिनों की अवधि में इस कार्यालय में प्रस्तुत करें तथा यह भी सुनिश्चित करें कि तीन स्वच्छ प्रतियों के प्रत्येक पृष्ठ पर अर्हित व्यक्ति द्वारा हस्ताक्षर कर दिये गये हैं। तथा बिन्दुवार कमियां सुधार का विवरण भी प्रस्तुत करें।

आपको यह भी सलाह दी जाती है कि आप खनन योजना का उपांतरण सह उत्तरोत्तर खान बंद करने की योजना की तीन स्वच्छ बाउण्ड प्रतियां पूर्ण सावधानी से तैयार करें अन्यथा पुनः कमियां/त्रुटियां पाए जाने की स्थिति में यह आपको संशोधनार्थ न लौटाते हुए इस पर अंतिम कार्रवाई कर दी जायेगी।

आप कृपया खनन योजना का उपांतरण सह उत्तरोत्तर खान बंद करने की योजना के साथ प्रस्तुत की जाने वाली वित्तीय आश्वासन एम सी डी आर 2017 के अनुसार पाँच वर्ष की अवधि का (Financial Assurance) क्षेत्रीय खान नियंत्रक, भारतीय खान ब्यूरो, रायपुर के पक्ष में प्रस्तुत करें। वित्तीय आश्वासन के अभाव में खनन योजना का उपांतरण सह उत्तरोत्तर खान बंद करने की योजना अपूर्ण मानते हुए अंतिम कार्रवाई कर दी जाएगी।

भवदीय,

संलग्न: यथोपरि

(बी एल. गुर्जर)
क्षेत्रीय खान नियंत्रक
भारतीय खान ब्यूरो

प्रतिलिपि:

1. खान नियंत्रक (मध्य), भारतीय खान ब्यूरो, नागपुर। (ई मेल द्वारा)
2. श्री शलभ साहा, एच. आई. जी. - 21, हुडुको कॉलोनी, आमडी नगर भिलाई, जिला दुर्ग - 490009 (छग) ।

क्षेत्रीय खान नियंत्रक
भारतीय खान ब्यूरो

Annexure

Scrutiny comments on examination of Modified in Mining Plan including PMCP of Nandini Khundini Limestone Mine (area 1.92 Hect.) of Smt. Mohini Devi Mishra in Durg District of Chhattisgarh State inspected by Shri S. Kartikeya, Jr. Mining Geologist on 13/04/2018

General Oversight

- 1) Lease period is valid upto 6/7/2018 only and no supplementary lease deed for extended lease period is enclosed whereas mining proposal are given upto year 2022-23.
- 2) During inspection it was found that the Lessee has shifted the lease boundary pillars to 15-20 meters approx from the previous location because of the DGPS survey performed by the empanelled agency. Lessee has informed that the new locations of the lease boundary pillars have been demarcated by the empanelled agency based on their DGPS Survey.
The lease area could not be ascertained during field inspection as which one is correct, earlier working or new DGPS surveyed area. Hence lease area demarcation report with DGPS survey duly authenticated by the competent authority of the State Government needs to be furnished in this case.
- 3) It was also been observed that the prepared surface plan of the lease area is not matching with the actual ground condition such as 7.5m barrier zone has not been maintained anywhere as well as the drawn uniform benches in the northern and southern direction of the lease area was not seen in the ground in a uniform shape.
- 4) The Following major deficiencies have been found in the document:
 - a) The northern and north-eastern lease boundary has been completely mined out and backfilled with the soil, without any proposal.
 - b) There are several places found within the lease area which have been completely mined out and backfilled e.g. central part, north-western part of the lease area same has not been depicted on surface plan.
 - c) It was observed that most of the mineral is already been mined out from the lease area and there is very little further scope for mining of mineral from lease area . First lease area needs to be properly surveyed and then only planning for remaining extraction of mineral needs to be given. .
- 5) Cover Page: (a) A suitable panoramic photograph of the working pit may be shown in the cover page. (b) Lease period and extended lease period may be written in form of from to to with years of validity.

2.0 General

- 6) Page no. 5; Para 2.3: A valid Email Id of the lessee may be mentioned.
- 7) Page No. 6; Para 2.13: Enclosure no. and page no. of the referred letter may be given.
- 8) Self attested copy of the Lessee's Aadhar card may be enclosed.

3.0 Location & Accessibility

- 9) Page no. 7; (a) Para 3.4: Detail bifurcation of the lease period (renewal period and extended lease period as per MMDR Act, 2015) may be given. (b) Para 3.7.1: Detail Land Schedule of the lease area may be given along with Cadastral numbers and area in hectares.
- 10) Para 3.10 – DGPS coordinate of lease boundary pillar duly authenticated by competent state government authorities needs to be given.

5.0 Review of Earlier Approved Mining Plan/Scheme of Mining

- 11) In this chapter, review may be given up to March 2018.
- 12) Page no. 11; (a) Para 5.1: As per enclosed Form J, exploration was carried out during 2017-18, hence in the column of actual achievement, the correct information may be written.

Type of drilling may also be mentioned in the text. NABL accredited test reports of bore hole samples may be enclosed. **(b)** Para 5.3: Proposal and its achievement may be given in the form of local/UTM coordinates for better identification. Further, reason for non achievement of the proposal should be mentioned in remarks.

- 13)** Page no. 12; **(a)** Paragraph numbering may be corrected.
- 14)** Page no. 13; Para 5.8: Number of trees to be planted during every financial year and area covered under plantation may clearly be mentioned.
- 15)** Page no. 14; **(a)** Para 5.9: NABL accredited test reports performed during last Scheme Period of Air, Water and Noise may be enclosed for justification. **(b)** Area put to use has been increased from the proposed land utilization, may be clarified. Whether the equal difference amount of the Financial Assurance in the form of Bank Guarantee has been submitted may be mention with their amount and validity.
- 16)** Page no. 15; Para 5.18: The given information is incomplete hence; details of all the violations, pointed out by IBM may be given along with the compliance position.

6.0: Geology & Exploration

- 17)** Page no. 21; Para 6.6: **(a)** Average thickness of the Limestone beds may be written. **(b)** Whether the entire thickness of Limestone beds has been intersected by exploration and any deeper borehole has been drilled to know the possibility of the parallel beds of Limestone in this area, may be mentioned.
- 18)** Page no. 20; Para 6.8.3: **(a)** For justification of the average grade of the limestone, few samples from the existing quarry may be analysed from the NABL accredited laboratory. Sample locations may be marked in the geological plan. **(b)** All the cross section lines may be drawn along the UTM/Local Coordinates grids for better assessment of the reserve and resource. **(c)** None of the borehole samples have been analysed till the date of inspection hence, average grade of limestone may not be considered as 42% CaO.
- 19)** The following deviations have been found in the Geological Plan:
- a)** Area explored under geological axis G1, G2, G3 and G4 have not been marked.
 - b)** Structural features, litho-contacts and Surface outcrops of the different litho-units have not been marked.
 - c)** Structural features have not been marked in the plan.
- 20)** The following deficiencies have been observed in the geological sections:
- a)** All the geological cross sections may be drawn along the UTM grid line at an 100 m or 200 m grid interval for better identification and precise estimation of the reserve/resource.
 - b)** The lateral influence is 100 m on both sides of the borehole/ quarry limit for G-1 & further 100 m for G-2 stage has not been considered.
 - c)** 7.5 m barrier zone has not been marked.
 - d)** Without environment clearance Feasibility axis may not be considered as F1.
 - e)** None of the drilled boreholes have been marked in the section.
 - f)** The boreholes not falling under cross-sections lines and has been projected in the section may be written projected 'P' as suffix.
 - g)** For consideration of depth, the actual depth of each borehole/quarry depth in each section should be considered for G-1 & G-2 stage of exploration along with the influence of 50% towards the other borehole.
- 21)** Page no. 27: Bulk density test should be done from Govt lab or the NABL accredited laboratory and the report may be enclosed for justification.
- 22)** Page no. 33; Para 6.9.9: The following parameters may be considered for the proposal of future exploration programme as the present drilled boreholes are not indicating the depth wise mineral persistency in the area:

- a) Exploratory boreholes to be proposed up to 300 meters or up to discontinuance of ore body, whichever is earlier.
- b) Year wise proposal for the future exploration plan may be given.
- c) Only core boreholes may be proposed for drilling.
- d) GPS (WGS84; degree minute second) co-ordinates of all proposed boreholes may be given along with reason for site selection and ground RL.
- e) All the proposed boreholes may be marked in the geological plan with distinct colour for each year proposal.

23) Area explored under G1, G2, G3 & G4 may be given in hectares.

7.0 Mining

- 24) During inspection it was observed that the development was done in irregular and unscientific manner in the southern side of the lease area and no further scope is available for production of mineral from this area. Hence in view of the sustainable mining, no further development may be accepted in the southern side of the lease area. The entire development planning given in the area may be changed and modified as per the actual scope available for mineral exploitation during plan period.
- 25) Page no. 36; (a) Para 7.2: Year wise quarry dimension and layout may be given. UTM/Local Coordinate range of the proposed development area and waste dumping area may also be given. (d) Recovery percentage and mining loss of limestone may be discussed in this chapter.
- 26) Describe briefly the layout of mine workings (Top and Bottom RL) before and after the development.
- 27) Page no. 52; Para 7.25: Year wise plantation proposal may be given in tabular form.

9.0 Mine Drainage

- 28) Meteorological data of the average rainfall may be enclosed for reference.
- 29) NABL accredited test report of air, water & noise has not been furnished.

11.0 Use of Mineral and Mineral reject

- 30) Page no. 58; Para 11.1: The enclosed purchase order does not indicate the quality of limestone and reflect that limestone will be consumed as minor mineral. Hence it may be noted that if the limestone will be used as minor mineral, a prior permission under rule 12 (1) (k) of MCR, 2016 may be obtained before despatch of mineral.
- 31) A detailed characterization of the mineral reject may be supported with the NABL accredited test reports for CaO% and other elements.

12.0 Processing of ROM and Mineral Reject

- 32) Page no. 60; (a) Para 12.1: During inspection it was observed that the screen reject will be generated with the help of crusher. But in the present document, screen reject has not been discussed anywhere. As well as chemical and physical properties of screen reject has not been mentioned. Hence the same may be incorporated in the text. (b) Chemical analysis report from NABL accredited laboratory of different size of ore may be given.

14.0 Progressive Mine Closure Plan

- 33) Area put in use under different heads at the end of every financial year may be given.
- 34) Proposal for regular monitoring (quarterly) of Air, Water and Noise may be given.
- 35) Flora & Fauna: The written species of the plants under this para may be proposed for plantation in future to protect and retain the local environment. A year wise proposal for plantation may be incorporated.
- 36) Reclamation proposal in the 7.5 meter barrier zone which has been earlier mined out may be incorporated..
- 37) Page no. 78: During inspection it has been found that almost the total lease area has been utilised. Hence financial assurance in form of Bank Guarantee may be given for entire lease area. It may be ensured that the financial assurance should be valid up to 31/03/2023.

- 38)** It has been observed that the entire 7.5 m barrier zone has completely been mined out hence during this plan period proposal for backfilling in 7.5 m may be incorporated.

Plates

- 1)** Surface geological plan may be updated after authentication of DGPS survey of Lease area.
- 2)** Development and production planning needs to be corrected based on updated surface geological plan.
- 3)** Plate no. VIII; Redamation Plan: Redamation at 7.5 m barrier zone may be shown.
- 4)** Plate no. IX; Financial Area Assurance: As per plan almost complete 1.92 ha. area has been utilised. Hence area put to use may be modified.
