



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: बिलासपुर/चूप/खयो-1189/2018-रायपुर

दिनांक - 21.01.2019

प्रेषित : सर्वश्री जिंदल स्टील एण्ड पॉवर लिमिटेड,
पी ओ नं - 16, खरसिया रोड रायगढ़,
जिला रायगढ़, छत्तीसगढ़ - 496 001

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 - गोडाडीह महल, तहसील - मस्तूरी, जिला - बिलासपुर (छग) में स्थित गोडाडीह महल - 2, चूना पत्थर खान, क्षेत्रफल - 120.313 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 वी के मित्रा, 304, पविलियन हाइट - 2, जे पी ग्रीन्स, विस टाउन, सेक्टर 128, नोयडा - उत्तर प्रदेश।

क्षेत्रीय खान नियंत्रक
भारतीय खान ब्यूरो

Inspection report cum scrutiny comments on Modified Mining plan & with Progressive Mine closure plan of Godadih Mahal No.2 Limestone Mine, Lease over an extent of 120.313 hectore in Village:Godadih, Tehsil:Masturi, District: Bilaspur, Chhattisgarh of M/S Jindal Steel and Power Limited. Godadih Mahal No.2 Limestone Mine was inspected on 15/01/2019 by Shri R.K. Das (Sr. ACOM) and Shri Rudra. N. Mishra (Senior Mining Geologist).

- 1) The rule under which modification in approved mining plan submitted is to be mentioned under rule 17 (3) of Minerals (other than Atomic and Hydro Carbons Energy Minerals) concession rules 2016 on covering page as well in the concerned text.
- 2) Type & category of mine (opencast/underground/ category A mechanized / other than fully mechanized / B manual, name of mineral and lease period, proposal periods, IBM Registration number, Mine-code etc may be mentioned on cover page of document. Modified plan proposal shall be restricted to remaining /balance five year period of mining plan from date of execution of mining lease.
- 3) All proposal needs to be mentioned with specific financial year in text as well as in plates.
- 4) All the annexure to be properly indexed/ numbered/Paged and signed by the qualified person. All certificates should bear date and signature.
- 5) At a glance information before introduction at start of document in following format may be given

MODIFICATION IN APPROVED MINING PLAN AT A GLANCE				
1	Name of the Applicant /lessee			
2	IBM Registration no			
3	Address of Applicant			
4	Name of Mine			
5	Mine code			
6	Lease area in hectrs.	Forest -	Non-forest -	Total =
7	Forest Diverted area			
8	Name of Mineral			
9	Lease period from to			
10	Mineral Reserve (111& 112)			
11	Mineral Resources			
12	Production proposal (2018-19)			
13	Production proposal (2019-20)			
14	Production proposal (2020-21)			
15	Existing/valid EC permission in tonnes			
16	Plantation proposal per years in numbers			
17	Plantation proposal per years in area			
18	Back filling proposal in ha			
19	Bank Guarantee Amount / Performance Security			
20	Validity MDPA			
21	Prohibitory order from any authority like Forest Clearance& EC			
22	Any other important information			

Chapter-1 Introduction and General Information

- 6) MCDR 1988 should be replaced by MCDR 2017 in Documents.
- 7) Page No-2: Table no -01 has to be corrected as per State Govt letter no F-3/86/2007/12(3) Dated 25/05/2018, Para No 5.3 and 5.4 Blast Furnace Grade (+47% CaO) Resources 3.9 million tonne in the northern part of lease area. Total Limestone Resources is 13.725 million tonnes mentioned.
- 8) The List /Details of PL and Mining Lease granted and executed in favour of the applicant in the state.

- 9) The Capacity of the proposed cement plant and its location, distance and mode of transportation from the applied area, share of the production from the proposed area and other sources may be indicated.
- 10) Part-B, Page No.-3, Name, Address, Phone number & email address of the Nominated owner should be furnished.
- 11) Part-B, Page No.-3: Mobile number of the Authorised representative not mentioned.
- 12) Part-C, Page No.-5, Para-3.11: Approach route from Headquarters to area/ Mine site should be given in text also in same page.
- 13) Part-C, Page No.-5, Para-3.13: Annexure no mention is not correct.
- 14) DGPS Coordinates of Lease boundary pillars duly authenticated by state Government authorities have not been furnished.
- 15) Part -IV: Details of Approved Mining Plan: Proposal period (from and to) years wrongly mentioned its need to be correct.
- 16) Part -V: Review of Earlier approved Proposals

Review of last approved mining plan proposals are not mentioned. Against the proposals, actual achievement activities wise should have been quantified for each items and deviation if any should be justified in next column as per table given below.			
items	Proposals	Actual work done	Reasons for deviations
Exploration for Geological axis 1 or 2. Bore holes – Trail pits & Trenches-			
Number of bore holes			
Number of pits proposed for production			
Location of Development			
Total Quantity of topsoil removed, used and stacked in five years period in m3			
Quantity of overburden m3			
1 st year(2016-17			
2 nd Year 2017-18			
3 rd Year 2018-19			
Total			
Production of Mineral tonnes			
1 st year(2016-17			
2 nd Year 2017-18			
3 rd Year 2018-19			
Total			

Total Quantity of sub-grade mineral stacked in tonnes			
Stripping ratio or ore to OB ratio in five years period.			
Height of benches in pits (mts)			
Location of OB & mineral reject dumps			
Length of Retaining wall or garland drain all along dump.			
Area under backfilling of mined out area			

Plantation / A forestation			
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a) Details of earlier Financial assurance submitted-	
b) Amount of Financial Assurance	
c) Validity of Financial Assurance-	

- 17) Part -V: Review of Earlier Approved Proposals Mining Plan: Para 5.21: Reasons for submission of modification in approved mining plan clearly not mentioned including changed in use of mineral.

Chapter-2 Geology and Exploration

- 18) Rain fall data of the Mining lease area needs to be furnished in para-2.
- 19) Para-2.1 Litho-Stratigraphy of Chhattisgarh Basin including formation and members of the supergroup needs to be furnished.
- 20) Generalised Geological map of Chhattisgarh basin (Fig 2.2) & Geological map of Proterozoic Chhattisgarh Basin (Fig 2.3) are not readable.
- 21) Page No -16: In geology of the block referred borehole number's CHT-36, CHI-132A, CHI-127 but no bore hole logs attached in the documents needs to be attached.
- 22) Page No -16: Geological structure of the allotted block: Annexure -II of the Geological Report is referred many places but Geological Report not attached with documents.
- 23) Page no-18: Geological Map of the Mining Lease area (Fig-2.5) not readable.
- 24) Page No- 20: As referred GSI -07 number of Bore holes drilled, details need to be furnished in tabular format. (co-ordinates, depth, lithology & analysis).
- 25) Page No- 21: Petrographic studies of the mineral and Bulk density study reports needs to be attached.
- 26) Page No- 21: The details of expenditure incurred in exploration till date under various heading should be shown in tabulated format.
- 27) Copy of Form I and J as per MCDR 2017 to be enclosed for all the Bore holes for ready and future reference as per Rule 47 & 48 of MCDR 2017.
- 28) Page No-23: It mentioned about Annexure-11 of Geological Report but it's not attached.
- 29) Page No-24: It mentioned about Annexure-12 of Geological Report but it's not attached.
- 30) Page No-24: Para-2.4 Reserve: Since mineral resources have been re-assessed in the lease area. A sub heading " Re-assessment of mineral resources" needs to be given, while furnishing details of same.
- 31) Page No-24: Basic assumption and norm followed: As per Grant order of State Govt letter no F-3/86/2007/12(3) Dated 25/05/2018 in Para No 5.3 and 5.4 mentioned Blast Furnace Grade (+47% CaO) so resource should be examined and reserve needs to be estimated accordingly.
- 32) Page No-24 to 40: Table 2.4, Table 2.5, Table 2.6, Table 2.7, Table-2.11 & Table-2.16 needs to be changed as per Grant order mentioned Blast Furnace Grade CaO +47%.
- 33) Page No-25: Methods adopted for reserve estimation: Section wise reserve estimation calculation to be given along with different grade wise etc and further calculation of reserve by Block method is not furnished. Further Mineral blocked due to benches, UPL, barriers, road, nala, electric line and other statutory barriers etc.
- 34) Page No-27: Fig -2.7 X and Y axis value is not readable.
- 35) Page No -29: Fig 2.8 Index is not readable.
- 36) Page No -30: Reserve as per UNFC Code: Reserve should have been classified in A -Minerals reserve-(i) Proved mineral reserve (111), (ii) Probable Mineral Reserve 121 & 122.B - Remaining Resources (211, 222, 331, 332, 333, 334) codes with justification of each axis.
- 37) Reserve should have been on specific date. Grade, cut of grade, quantity of sub grade, and mineral reject should have been specifically mentioned along with associated overburden to arrive over all stripping ratio.
- 38) Mineable reserve should have been calculated considering mining parameters.
- 39) Page No-34: Table no-2.10: Average grade of Flux grade limestone is mentioned less than 47% Cao needs to be checked. The total BF grade limestone reserve estimated and given on state

government order is 3.9 million whereas in document it is estimated as 13.50 million tones. It needs to be clarified. Chemical formula of SiO_2 , Al_2O_3 , & Fe_2O_3 needs to be corrected.

- 40) Page No-36: Stripping Ratio: Mentioned about Annexure -IV of Geological Report but it's not attached.
- 41) Page No-37: Proposed for Future Exploration: As per Rule 12(4) of MCDR, 2017 entire potentially mineralized zone to be explored under G1 level of the exploration, however, it is observed that the proposed exploration is inadequate to explore entire potentially mineralized zone under G1 level of exploration.
- 42) Non-Mineralized Zone should be marked in Geological Plan and area mentioned in the text for the purpose of soil & OB Dump.
- 43) Page No -40, Table -2.15: Average Grade of Flux Limestone is 47.01% CaO different from Table No -2.10, needs to be clarified.

Chapter-3 Mining

- 44) The mining proposal should not decrease as per earlier approved document (Mining Plan) as the production proposal is linked with MDPA.
- 45) Modified development and production proposal should be given along with already approved mining plan proposal

Sr.No	Year	Already approved proposal of limestone in tonnes	Modified production proposal proposed in submitted modification	Reasons of same
	2016-17			
	2017-18			
	2018-19			
	2019-20			
	2020-21			

- 46) The years wise excavation programme may be given in the below given table as per prescribed in manual:

Year	Pit no	ROM CUM	Limestone ...% of (3) CUM	Subgrade / Mineral Reject ..% of (3) CUM	Waste ...% of (3) CUM	Tentative Mineral @ ...t/CUM in tonnes	Subgrade / mineral rejects in tonnes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2018-19							
2019-20							
2020-21							

- 47) Conceptual mine planning- Brief note on Exploration, development, Excavation, reclamation, life of mines based on available mineral resources and land use at conceptual stage have not been given covering following points

a	Exploration-	
b	Excavation-	
c	Rated production capacity of mines - t/year	
d	Life of mines -	
e	Ultimate size and pit limit -	
f	Waste Disposal-	
g	Reclamation and rehabilitation -	

- 48) The calculation given for HEMM for achievement of required should be furnished for excavation, loading, transportation, etc. and calculation should be based on maximum excavation proposed.
- 49) The flowchart of crushing and screening plant with other beneficiation process to be furnished with capacity and input/out size.
- 50) **Use of Minerals:** The use of minerals should be specifically mentioned with chemical and physical properties and the plant where it is to be used.
- 51) Page No: 56: It mentioned mine will be worked in two shifts but existing Forest letter clearly mentioned "No mining or ancillary activities should be allowed between Sun set and Sun rise. Letter no. F. No-6-CHC-62/2012-BHO/286 dated 01/09/2015.
- 52) Page 99: Table -8.13: Financial Assurance: Its needs to be recalculated based on new rate.
- 53) **Disaster Management plan:** Name and designation of key persons with contact no in case of any emergency . (Manager, Hospitals , fire station, police station, etc. should be furnished..

54) **Plates: The details of the deficiencies found on the plate are as follows:**

1. Date of survey is older than 6 months. Plan and sections need to be updated.
2. Co-ordinate mentioned on plates have not been authenticated by state government authorities.
3. All plates should show a scale of the plan at least twenty-five meters long and suitably subdivided.
4. Plans have not been prepared on specified scale as per MCDR 2017. Scale of plan should be as per rules or specific permission from CCOM for different scale should be obtained. All plates should be prepared as per prescribed scale only.

55) **Lease** Plan is not submitted.

56) **SURFACE PLAN**

- 1) Surface plan prepared is not on specified scale as per MCDR 2017.
- 2) Explosive Magazine, Public road, mine road and village road should be marked and differentiated by colors in plans.

57) **GEOLOGICAL PLAN**

- 1 Geological Plan and Section has not been prepared on suitable scale.
- 2 The dip/strike direction also not shown and neither index.
- 3 Positive and negative bore hole needs to be shown in different color.
- 4 Proposed exploration programme is not shown on geological plan on financial year-wise basis.
- 5 Three type of boreholes are marked on plate whereas index for same have not been given.

58) **PRODUCTION AND DEVELOPMENT PLAN**

Development plan: Development Plan & Section: The working plan should be proposed with proper advancement and top and bottom RL. The section also to be corrected accordingly. The benches should be proposed with bench RL and regular in manner. The topsoil, OB, mineral benches should be marked with different colour code to identify.

The haul road not shown from working face to top soil, waste dump, screen reject and mineral stack. The top soil dump, waste dump and mineral stack should be shown in the plate and should be proposed yearwise with RL. The plate should be revised accordingly

59) **Financial** assurance plan not attached

60) Title of Progressive mine closure plan may be changed to reclamation plan.

61) All the plates should be index properly as the features shown in the plan with the same colour code for clarity and signed with date.

62) **Enclosure:** -

1. Copy of the analysis reports of limestone (obtained from core boreholes) from NABL/ similar accredited laboratory should be enclosed with the document.
2. Mine Development and Production Agreement (MDPA) need to be attached.
3. Geological Report needs to attached.
4. Hydro-geological report need to be furnished.
5. Feasibility study report have not been attached.
6. The experience certificate and Degree Certificate of QP should be enclosed.