



भारत सरकार

खान मंत्रालय

भारतीय खान ब्यूरो, क्षेत्रीय खान नियंत्रक कार्यालय, रायपुर
दुसरी मंजील, जीएसआई फील्ड प्रशिक्षण केन्द्र, महालेखाकार आफिस कोम्प्लेक्स,
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संख्या: जांजगिर/चूप/खयो/1243/2020-रायपुर

दिनांक - 30.09.2020

प्रेषित : सर्वश्री नुवोको विस्तास कार्पोरेशन लिमिटेड,
अरासमेटा चूनापत्थर खदान,
अरासमेटा सीमेंट प्लांट,
पोस्ट – गोपालनगर, तहसील– अकलतारा,
जिला – जांजगीर चंपा, छत्तीसगढ़ – 495 663

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 – अरासमेटा, तहसील – अकलतारा, जिला – जांजगिर चंपा (छग) में स्थित बड़े अरासमेटा चूना पत्थर खान, क्षेत्रफल – 46.292 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 जांच 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 रितेश कैमल, सर्वश्री नुवोको विस्तास कार्पोरेशन लिमिटेड, अरासमेटा सीमेंट प्लांट, पोस्ट – गोपाल नगर, तहसील– अकलतारा, जिला – जांजगीर चंपा, छत्तीसगढ़ – 495 663

क्षेत्रीय खान नियंत्रक
भारतीय खान ब्यूरो

Scrutiny comments on examination of Modification of Mining Plan including PMCP of Arameta Limestone Mine (Area 46.292 Hect.) of M/s NUVOCO Vista Corporation Ltd in Janjgir Champa District of Chhattisgarh State inspected by Shri Rajesh Kumar Das, Senior Assistant Controller of Mines on 10/09/2020.

1. **Introduction:** In given para at page 4 & 5 table is basically repetition of index table and it needs to be removed. It is also mentioned that due to availability of low grade limestone in existing Arasmeta lease 1 & 2 the capacity is enhanced in Arasmeta lease 3 where good quality limestone available but as per the Form-J data enclosed it is observed that the Quantity of Limestone is less and most of the limestone is of high silicious with grade SiO₂ 15 % to 20% or more. The bore holes summery given below:

Bore hole No	Bore hole depth	
NBH2	19	High silicious limestone (SiO ₂ 16-25%
NBH3	31	Top 5.25 m ,SiO ₂ 28.97%,5.25-9m limestone, 9-18m high SiO ₂ above 15%
NBH 3A	9m	High SiO ₂
NBH4	28m	Top 2.1m top soil,2.1m-6m Limestone, 6m above high silica 15.27-45%
NBH8	31m	Top soil 1.25m,1.25-9m limestone,9m-14m high silica 25-39%,14m-22m Limestone,22-31m high SiO ₂
NBH9	31m	High Silica above 15%
NBH11	31m	2.52m-17m Limestone,17-31m High silica above 13.5%
NBH16	25m	3.45-7m Limestone,7-8m Shale,8-25 high silica
NBH15	25m	2.4-8m Limestone,8m above high Silica 3.5-27%
NBH12	4m	High silica

The justification for above should be given.

2. **Future Exploration Programme:** During the study of the borehole logs it has been found that most of the boreholes have been closed/terminated in the limestone. Hence, the present drilled boreholes are not indicating the depth wise mineral persistency in the area. Therefore, the following parameters may be considered for the proposal of future exploration programme:
- a) Exploratory boreholes to be proposed up to 300 meters or up to discontinuance of ore body, whichever is earlier.

Year	FUTURE EXPLORATION				
	No. of boreholes (Core / RC /DTH)	Grid interval	Total meterage	No. of Pits, dimensions and volume	No. of Trenches, dimensions
2021-22					
2nd					
3rd					
4th					
5th					

- b) All the proposed boreholes may be marked in the geological plan with distinct colours for each year proposal.
- c) The form-J enclosed is not correct some bore holes shows SiO₂ 37.42 and Cao is 21.27 and it is mentioned shale limestone. There are many places in bore hole no. NBH3, NBH2, NBH4, NBH5,etc. The value below threshold is waste and therefore the in Form-J the correction to be done accordingly. The reserve should be revised accordingly.
- d) As per MEMC Rules,2015 at least 10% of sample should be analysed in NABL/Govt. Lab.

3. **Mining:** The production proposal for the current year 2020-21 is given more than 4 lakh and next year 2021-22 is 10 lakh tonnes but till date work is not started, there is no Environment Clearance and already six months period of current year lapsed, therefore the proposal should be reviewed and revised accordingly.
4. The production proposal is enhanced from 0.5 million tons to 1.0 million ton per year without proper justification. In earlier document the proposal is given for 0.5 million ton of ROM but till date no production started. The proposal is given for ROM but saleable Limestone is not mentioned. Word limestone may be used for ROM throughout the document.
5. Para 7.4- calculation part in blasting table may be re-checked and corrected.
6. **Progressive Mine Closure Plan:** Page 53, protective measures for reclamation and rehabilitation work table yearwise not furnished.
7. **Geological Plan:** In the given plan as per MCDR, 2017 the potential area of entire lease area should be explored within 5 years of lease execution. The future exploration proposal should be restricted upto five years from the date of execution or the MCDR,2017.
 - i. The Positive and negative bore hole needs to be shown in different color and collar and depth of borehole to be shown.
 - ii. Proposed exploration programme is not shown on geological plan on financial year-wise basis.
 - iii. In geological plan the lithology should be shown as per surface exposure and same should be indexed properly but actually the litho shown is not as per actual and also the index is also not matching.
 - iv. The ultimate pit limit shown in the plan is not covering the entire lease area and due to that some reserve/resource blocked, the same should be reviewed and accordingly corrected.
8. **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.
9. The mining proposal is given with a capacity of 1 million tons to utilise it in captive plant with grade requirement of 8-12% SiO₂ but as per the borehole log near the proposal the borehole NBH 3 & 3A, the SiO₂ is very high as mentioned in above table therefore the proposal should be revised as per the quality requirement. The calculation of production proposal benchwise with grade should be furnished.
10. The haul road not shown from working face to top soil, waste dump and mineral stack and RL of top and bottom should be marked. 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.
11. There are few deficiencies observed in the given plate:
12. Something written near BP 89 as on 05.08.2014 is not clear.
 - a. The section drawn L-L' is not correct as in section the working bench towards L' is shown extended upto ultimate pit and dump but in the plan it is 70-80 meter away from dump.
13. **Environment Plan:** The plate should be enclosed as per requirement of Rule 28(b) of MCDR,1988 on scale of 1:5000 and in the given plate only the existing features with in lease area should be shown. The plate VIII is mentioned as Environment Management Plan whereas it is Environment Plan.
14. **Reclamation Plan:** In the given Plan year wise backfilling, afforestation, dumping and other environmental protection measure are to be shown with different colour year wise. The Plate is missing.
15. 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.
16. Relevant experience and educational qualification certificate of Qualified person are not enclosed.