



भारत सरकार GOVERNMENT OF INDIA  
खान मंत्रालय MINISTRY OF MINES  
भारतीय खान ब्यूरो INDIAN BUREAU OF MINES  
क्षेत्रीय खान नियंत्रक के कार्यालय  
OFFICE OF THE REGIONAL CONTROLLER OF MINES



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No. RMP/A/42-ORI/BHU/2019-20

Date: 06.02.2020

सेवामे

Shri K C Das, Nominated Owner,  
M/s Bisra Stone Lime Company Ltd,  
At/P.o- Birmitrapur, Dist- Sundargarh,  
Odisha-770 033

विषय: Approval of Review of Mining Plan of Birmitrapur Lst & Dol Mine along with Progressive Mine Closure Plan (PMCP), over an area of 793.043 ha in Sundargarh district of Odisha State, submitted by M/s Bisra Stone Lime Company Ltd under Rule 17 of MCR, 2016.

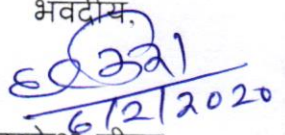
- संदर्भ: - i) Your letter No. BSLC/Mining Plan/ 2019-20/256 dated 02.01.2020 received on 13.01.2020.  
ii) This office letter of even no. dated 13.01.2020.  
iii) This office letter of even no. dated 13.01.2020 addressed to Director of Mines, Government of Odisha copy endorsed to you.

महोदय,

This has reference to the letter cited above on the subject. The draft Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on site inspection carried out on 31.01.2020 by Shri G C Sethi, Deputy Controller of Mines. The deficiencies observed are enclosed herewith as Annexure I.

You are advised to carry out the necessary modifications in the draft Review of Mining Plan in the light of the contents vide Annexure 1 and submit **three (3) firm bound and two (2) soft copies of the document text in CD in a single MS Word file ( the drawing/plates should be submitted in Auto CAD compatible format or JPG format in resolution of 100x100 pixels on same CD )** with financial assurance under Rule 27 of MCDR 2017 of the Review of Mining Plan within **15 (Fifteen)** days from the date of issue of this letter, for further necessary action. If the total page of annexures exceeds 50 (Fifty) then it should be submitted as separate volume. But reference of these annexures must appear in the Review of Mining Plan document. The plates are also to be submitted in separate volume.

The para-wise clarifications and the manner in which the deficiencies are attended should invariably be given while forwarding the final copies of the Review of Mining Plan. It may be noted that no extension of time in this regard will be entertained and the Review of Mining Plan will be considered for rejection if not submitted within above due date. It may also be noted that if the deficiencies are not attended completely, the submission would be liable for rejection without further correspondence.

भवदीय,  
  
(हरकेश मीना)

क्षेत्रीय खान नियंत्रक

प्रतिलिपि सादर सूचनार्थ और आवश्यक कार्रवाई हेतु Shri Manoj Bhatnagar, Qualified Person, E-102, Madri Industrial Area, Po- Madri, Udaipur-313003.

(हरकेश मीना)  
क्षेत्रीय खान नियंत्रक

**SCRUTINY COMMENTS ON EXAMINATION OF MINING PLAN WITH PROGRESSIVE MINE CLOSURE PLAN FOR BIRMITRAPUR LIMESTONE AND DOLOMITE MINE OF M/S BISRA STONE LIME COMPANY LTD., OVER AN EXTENT OF 793.043 HECTARES, LOCATED IN BANKI, BANMUNDA, BRAHAMANMARA, JAJANGBIRA, KANSBAHAL & RAIPURA VILLAGES, UNDER BIRMITRAPUR TAHASIL OF SUNDARGARH DISTRICT, ODISHA STATE, SUBMITTED UNDER RULE 17(3) OF MCR, 2016.**

- (1) In the front cover of the mining plan, the document has been submitted for the period from 01.04.2020 to 31.03.2025, for the lease period 01.04.2020 to 31.03.2040 but the lease has not been extended so far and the same will expire on 31.03.2020. Therefore, a valid lease extension letter beyond 31.03.2020 from State Govt. of Odisha should be obtained and submit along with the mining plan document, otherwise, the mining plan document cannot be processed further.
- (2) On examination of the contents & chapters of the modification of mining plan, it is found that, the item nos. 9.0,10.0,11.0 & 12.0 are considered as chapters, which is not correct, thereby corrected accordingly.
- (3) The enclosed annexure-1 & 2 are not necessary; instead, the lease extension letter beyond 31.03.2020 should be obtained and submitted, while submitting the modified copies.
- (4) The copy of the surface right order, dated 19.09.2011 for 1099.303ha of area has been enclosed as annexure-3, whereas, the lease area has been reduced to 793.043ha, thereby the revised or fresh surface right order should be submitted.
- (5) The Form J for drilled boreholes during 1992-93 to 1995-96 & 2008-09 has been enclosed as annexure-4 but the name/number of the borehole furnished in the Form J is not matching with that of the borehole logs enclosed along with the referred annexure. Besides, authenticated chemical analysis report for Govt./NABL accredited laboratory in support of the grades of the limestone & dolomite furnished in the borehole logs have not been submitted, which should be furnished for more informative.
- (6) The certificate of incorporation, memorandum and article of association of M/s BSLC Ltd., is stated to be enclosed as annexure-7 but the same is not found in the enclosure side, which should be submitted.
- (7) The documentary evidence in favour of the qualified person Shri Manoj Bhatnagar has been enclosed as annexure-13 but the ID proof in favour of Shri Bhatnagar has not been submitted. Besides, in the consent letter from the applicant, the name of Shri M.K. Khedekar also surfaced as one of the qualified person but documentary evidence & ID proof for Shri Khedekar has not been submitted. Moreover, Shri Khedekar also not signed the document along with Shri Bhatnagar.
- (8) The chemical analysis report of limestone & dolomite samples analysed through Visakhapatnam Steel Plant has been enclosed as annexure-16 but the report is old one, analysed on 23.11.2017, which is not proper, instead fresh analysis report should be obtained either from a Govt. laboratory or from NABL accredited laboratory & enclose along with the document for more informative.
- (9) The environmental monitoring report prepared during 2017 through the Centre for Envotech & Management Consultancy Pvt. Ltd. has been enclosed as annexure-17 but the report is very old & not acceptable in its present form, thereby the fresh report for the same for all four quarters of the year 2019-20 analysed through any of the NABL Accredited laboratory or from Govt. laboratory should be submitted replacing the enclosed one for ease in monitoring.
- (10) The copy of the explosive procurement license issued by the competent authority in favour of M/s Bisra Stone Lime Company Ltd., has not been enclosed. Besides, a copy of the blasters license issued by the competent authority for carrying out blasting operations may also be submitted.

(11) A copy of the valid Bank Guarantee for the extent of area put to use in different counts during the ensuing modification period from 2020-21 to 2024-25 has not been enclosed & the same should be submitted.

(12) No photographs in support of the dump /stack /reclamation & rehabilitation /afforestation etc. have been enclosed along with the document, which should be submitted.

(13) In the page under reference, it is mentioned that, the surface right was accorded over an extent of 793.043ha, which is not correct. Accordingly corresponding incorporation/modification may also be made in relevant places of the document. (Page No. 2)

(14) There are 143 nos. of boreholes were already drilled in different occasions but the original borehole logs & authenticated analysis report in support of such holes has not been enclosed, which should be submitted. Besides, the extent of lease area already explored by putting the boreholes & the grid pattern of such bore holes may also be submitted. Accordingly, the table furnished in the para under reference may also be revised. (Table-1.1, Page No. 22)

(15) During the period from 2020-21 to 2024-25, there are 179 nos. of boreholes are proposed to be drilled upto G2 level, instead, the entire leased out area should be proposed under exploration and the boreholes should be completed during 2020-21. Accordingly, necessary modifications /incorporations may also be made in connected paras in the text with proper tables & plate reference. [Para 1.0(i)]

(16) A good number of boreholes are proposed to be drilled for identification of the minerals; instead it should be for proving the depth of mineralisation and enhancement of reserves & resources under UNFC. Accordingly, the last column of the proposed exploration furnished in tabular form should be revised. (Page No. 26 to 33)

(17) The resources/reserves of limestone and dolomite have been estimated under G1, G2 & G3 categories in table 1.3 & 1.4 but on examination of the same, the following observations are made: (i) Thickness of the cross sections is missing and the same has not been linked with the borehole analysis report of the individual boreholes in the particular grids. (ii) The calculations for tonnage of limestone and dolomite has been calculated considering the bulk density of  $2.5t/m^3$  for limestone and  $2.6t/m^3$  for dolomite but the bulk density test report from a Govt./NABL accredited laboratory has not been furnished, which should be submitted. (iii) The recovery of saleable limestone and dolomite is considered as 90% and mineral reject generation is 10% of the ROM but authenticated recovery test report from NABL accredited laboratory with valid scope of accreditation for limestone and dolomite has not been submitted. (iv) No authenticated analysis report for the grades of limestone and dolomite resources/reserves also submitted. Moreover, no calculations for resources under G4 and other resources have been furnished. In view of the above, it is found that, the reserves estimated are not as per the UNFC guidelines. For reserves estimation, the following procedure is to be followed:-

Initially cross section wise reserves/resources should be established for G1, G2, G3 and G4 categories of UNFC system based on the degree of exploration and prospecting carried out in the entire lease area as per criteria laid down in the guidelines. This should include the entire resources within the lease including the boundary barriers, mineral to be locked up in benches etc. After this, the geological reserves/resources should be upgraded to various categories of UNFC based on their feasibility and pre-feasibility studies with suitable justification for each category. Further, the reserves /resources which is not mineable due to statutory barriers, safe working of the mine, waste dumping, internal roads, forest area for which clearance is not there should be put under the (211), (221) & (222) resources category of UNFC. Reserves below the cut-off grade should also be put under the feasibility / pre-feasibility resources category and the same should be adequately

discussed in the feasibility study report. Accordingly, corresponding changes may also be made in geology & exploration chapter. (Table 1.3 & 1.4)

(18) On examination of the tables furnished under the heading **Insitu Tentative Excavation**, the following observations are made: (i) There are 4 nos. of quarries for limestone and same number of quarries for dolomite have been proposed under excavation planning, instead one or two separate quarries for limestone as well as dolomite should be proposed to achieve the proposed yearly production. Accordingly, corresponding modifications may also be made in the plates submitted showing the development plans & sections. (ii) Thickness of soil is considered uniformly for 1.6m, at all the places, which is not correct; instead the average thickness of the soil cover should be taken into account. (iii) The recovery percentage of the limestone, dolomite, reject limestone, reject dolomite & waste generation is missing. (iv) The grades of limestone, dolomite, reject materials both from limestone & dolomite and the waste may also be furnished supported by authenticated chemical analysis report. Accordingly, corresponding incorporations /modifications may also be made in connected paras in the text & relevant plates. (Table 2.4 & 2.5 and other relevant places)

(19) There are 4 nos. of dumps are proposed for dumping the waste but no provisions for construction of retaining wall, garland drain & settling tanks eat., which should be proposed around the dumps. (Page No. 66)

(20) The exploration proposed in the geology and exploration chapter has been reproduced in this para, which is uncalled for as no exploration in conceptual stage is permitted.)

(21) The existing status of 17 nos. of dumps has been furnished but nothing has been mentioned about the existing status of the mineral reject stacks and proposed thereof, which should be furnished and the para may be revised accordingly. Moreover, huge quantities of soil has been proposed to be generated but the provisions for stacking and utilisation of the same also not furnished. (Para 4.0)

(22) Plantation has been proposed for the period from 2020-21 to 2022-23but the location co-ordinates & survival rate of such plantation may also be furnished by adding more columns in the table. (Table-8.8)

(23) Plate No. II (Key Plan): The details of the deficiencies found on the plate are as follows: (i) No colour codes for some features furnished in the index & on the plan portion of the plate has been given. Besides, the index reference given for many of the features are not matching with that of the plan portion of the plate. (iii) Direction of flow of River/nala is missing on the plan. (iv) No separate index reference has been given for reserved forest & other types of forest depicted on the plan portion of the plate. (v) Population of the villages falling within 5km radius of the lease area also not furnished.

(24) All the plan & sections submitted along with the modification of mining plan should be certified by the Qualified Persons indicating that, **the plans and sections are prepared based on the lease map authenticated by the State Govt. of Odisha and found to be correct.**

(25) Plate No. III(A): (Lease Map): An authenticated lease map from the State Govt. has not been submitted. (41)

(26) Plate No. III (B) (Surface Plan): (i) At least three permanent ground control points beyond the lease area has not been selected, which should be done. Besides latitude and longitude of those ground control points should be furnished and the ground control points need to be linked with boundary pillars. (ii) Besides, the pillar nos. of all the lease boundary pillars should be furnished along with its latitude and longitudes for more informative.

(27) Plate No. IV (Geological Plan): (i) As per the Minerals (Evidence of Mineral Contents) Rule,2015, the level of exploration at different stages (G1,G2,G3,G4) and unexplored area should be properly

Defined in tabular format and the same should be marked on the geological plan. (ii) The exploration proposal covering the entire lease area to the G2 level of exploration should be proposed and the same should be completed within the next two years period. (iii) Many of the geological features & its lithology have not been depicted. Accordingly, the plates submitted for geological sections and other relevant plate should also be revised.

(28) Plate-V (Geological sections): (i) None of the geological sections are matching with the features shown on the geological plan. (ii) Many of the litho units depicted on the plan are found to be not correct as per their locations. The plates may be revised suitably.

(29) Plate Nos. VI-A1 to VII-A to VII-E ( Development Plans & Sections): The proposed development for all five years have been marked with same color code without depicting the existing pit position of the previous year and it is not possible to know the proposed and existing pit position. Accordingly, all development sections submitted may also be revised suitably. Likewise the proposed dumps also not properly depicted in dump like manner, thereby the plates submitted showing the dump plan and sections and other relevant plates may also be revised.

(30) Plate No.VIII (Environment Plan): On the plan, 500 meter of the lease area has not been marked, which should be done depicting all existing features available with in the 500 meters and the plate may be revised accordingly.

(31) Plate No. X (Financial Area Assurance Plan): The extent of area put to use in different counts has not been marked with different colour codes neither on the plan portion of the plate nor index reference for the same has been given and the entire plate may be revised.

(32) Plate No. XII (Conceptual Plan): Conceptual plan & sections should be prepared showing the details of workings upto the lease period and the plate may be revised accordingly.