



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. MPM/FM/22-ORI/BHU/2017-18

Date: 12.12.2017

To

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

Sub: Approval of Modification 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.

Ref: - i) Your letter No. Nil dated 24.10.2017 received on 22.11.2017.
ii) This office letter of even no. dated 23.11.2017.
iii) This office letter of even no. dated 23.11.2017 addressed to Director of Mines, Government of Odisha copy endorsed to you.

Sir,

This has reference to the letter cited above on the subject. The draft of Modification of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on site inspection carried out on 23.11.2017 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 Modification of Mining Plan along with Progressive Mine Closure Plan in the light of the contents vide Annexure I 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 in Auto CAD compatible format or JPG format in resolution of 100x100 pixels on same CD)** with financial assurance under Rule 23 F of MCDR 1988 of the Modification 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 Modification 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 modified copies of the Modification of Mining Plan along with Progressive Mine Closure Plan. It may be noted that no extension of time in this regard will be entertained and the Modification of Mining Plan along with Progressive Mine Closure 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 / yours faithfully,


(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional controller of Mines

SCRUTINY COMMENTS ON EXAMINATION OF MODIFICATION OF MINING PLAN AND 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, JANGBIRA, 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 modification of mining plan, the document has been submitted for the period from 2018-19 to 2022-23, whereas the lease has been extended upto 31.03.2020, thereby the document should be submitted for the years 2018-19 & 2019-20. Besides, the registration allotted under Rule 45 of MCDR, 1988 also not mentioned.

(2) On examination of the contents & chapters of the modification of mining plan, it is found that, the document has not been prepared as per the universal format for mining plan. The chapter 4 has been mentioned to be for Geology, Exploration & Reserve, instead the same should be mentioned as **Geology & Exploration**.

(3) The documentary evidence in favour of the qualified person has been enclosed as annexure-1 but the ID proof in favour of Shri S.C. Nayak, qualified person is missing, which should be submitted.

(4) The supplementary lease deed executed for the reduced area of 793.043ha as indicated in the enclosed as annexure-3 but the copy of the lease deed executed for the full area is missing, which may also be submitted.

(5) The copy of the permission letter for preparation of plans on a scale other than the prescribed scale has been enclosed as annexure-5 but the same is not clearly legible, thereby a fresh & legible copy of the same should be submitted.

(6) The copy of the approval letter, dated 27.08.2014 for the scheme of mining has been enclosed as annexure-7 but the copies of approval letter for the mining plan/scheme of mining approved in different occasions prior to the above scheme of mining has not been enclosed & the same should also be submitted for more informative.

(7) Litho logs for the already drilled boreholes are enclosed as annexure-14 but the holes are coring or non-coring type has not been mentioned. Besides, the Form-J for such boreholes has not been enclosed.

(8) The chemical analysis report of limestone & dolomite samples from collected from loading points and analysed by different analytical laboratories has been enclosed as annexure 15, 16 & 17 but the reports are very old, analysed during 2012 & 2013, which is not acceptable, instead fresh analysis report should be obtained either from a NABL accredited laboratory or from a Govt. laboratory & enclose along with the document for more informative.

(9) The quarterly environmental monitoring report for the quarter ending March 2016 to May 2016 from Centre for Envotech & Management Consultancy Pvt. Ltd. Has been enclosed as annexure-19 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 current year 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 ID & address proof of the applicant has not been enclosed as annexure to the document, which should be submitted.

(11) 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.

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

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

(14) In 2nd para of the introduction chapter, it is mention that, during the 1st renewal period, the lease was executed over an extent of 2284.45 ha and in the 2nd renewal period, the lease was executed over an extent of 1099.303ha but the copies of the lease deed for 1st & 2nd renewal has not been enclosed along with the document, which should be submitted. (Page No.1)

(15) In 3rd para of the introduction chapter, a mention has been made about the processing status of 3rd renewal of the mining lease, which is uncalled for instead the execution status of supplementary lease deed should be furnished and the para may be revised accordingly. (Page No. 1)

(16) Under the heading **preparation of modification of mining plan**, it is mention that, the last scheme of mining was approved over an extent of 1099.303ha, which appears to be not correct; thereby the same should be checked and corrected. Accordingly, the extent of lease area expected to be renewed mentioned in the para under reference may also be revised. Besides, the modification of the mining plan has been submitted for the period from 2018-19 to 2022-23, which is not correct as the supplementary lease deed has been executed upto 31.03.2020, the proposal in the modification document should be restricted to 31.03.2020, thereby the proposed period of the modification of mining plan should be for the period from 2018-19 to 2020. Accordingly, necessary corrections/modification may also be made at all the relevant places in the text as well as in all the relevant plates submitted along with the document. (Page No. 2)

(17) In 2nd para of the page under reference, it is mentioned that, the surface right was accorded over an extent of 571.121ha out of ML area of 793.043ha but the extent of lease area mentioned is not correct instead the correct area should be for 1099.303 ha. Accordingly corresponding incorporation/modification may also be made in relevant places of the document. (Page No. 3)

(18) The Bisra Stone Lime Company Ltd., is mentioned to be Govt. of India Enterprise but the copy of certificate of incorporation in favour of BSLC has not been enclosed, which should be submitted. (Para 1.2)

(19) Preparation status of final mine closure plan for the blocks I, II, III, IV & V has been referred but the FMCP is a separate document & the submission status for the same is uncalled for in this document. (Page No. 5)

(20) The period and validity status of the mining plan/scheme of mining/modification of approved scheme of mining has been furnished in tabular form but the copies of approval letters for the same has not been furnished, which should be submitted for ease in monitoring. (Para 3.1)

(21) It is mentioned that, no modification was approved during the last five years, instead the reference & reasons for modification to the scheme of mining, dated 14.09.2010 should be furnished & the para may be revised accordingly. (Para 3.2)

(22) The letter reference & date of approval of the mining plan/scheme in which such exploration proposal was incorporated not mentioned, which should be furnished & the para may be revised accordingly. (Para 3.3)

(23) In the 2nd table given in the page under reference, the actual production of limestone & dolomite achieved during the year 2017-18 as on date is missing, which should be furnished. (Page No. 12)

(24) In the 2nd table given in the page under reference, the actual plantation done during the period from 2013-14 to 2016-17 has been furnished but the location co-ordinates of such plantation is missing, which should be furnished by adding one more column in the table for more informative. Besides, the proposed & actual plantation status for the year 2017-18 has not been given and the same may also be furnished. (Page No. 13)

(25) The copy of the violation cum show cause notice issued during the current year has not been enclosed along with the refer annexure-11. Besides, the status for the same also not incorporated in the table given in the para under reference, thereby necessary modifications may be made accordingly. (Para 3.4)

(26) There is a mention that, the last scheme of mining was approved over an extent of 1099.33ha, which is not correct. It is to mention that, as per the approval letter of scheme of mining enclosed as annexure-7, the scheme of mining was approved over an extent of 793.966ha out of 1099.303ha., thereby the para may be revised suitably. (Para 3.6)

(27) Length, width & extent of area in ha. for epidiorite, Limestone, dolomite & mica schist is furnished in tabular form but the basis on which such data has been furnished should be discussed in the para under reference. (Para 4.3)

(28) There are 134 nos. of boreholes were already drilled in different occasions since 1964-65 to 2008-09, 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. (Para 4.4)

(29) The status existing status of 10 limestone & 6 dolomite quarries are furnished in tabular form but the location co-ordinates & working/non-working status of none of the quarries has been furnished, which should be furnished.(Para 4.5.1)

(30) Ore zone wise exploration status has been furnished in tabular form but the location co-ordinates of such drilled bore holes is missing, which should be furnished with proper plate reference for ease in monitoring. (Para 4.5.2)

(31) Fresh & authenticated chemical analysis report either from NABL accredited laboratory or from Govt. laboratory has not been submitted, which should be enclosed and the para may be revised. (Para 4.5.3)

(32) (i) The lease has been extent upto 31.03.2020, whereas the exploration has been proposed beyond the lease extension period upto 2020-21, instead the exploration proposal should be restricted upto 2018-19. (ii) The proposed boreholes are coring or non-coring type not specified. Besides, the location coordinates & grid pattern of such bore holes may also be furnished by adding one more column in the table. (iii) The entire lease area should be proposed under exploration atleast upto G2 level & the same should be completed by 2018-19. Accordingly, necessary incorporations/modifications may also be made in other relevant places of the document & relevant plates. (Para 4.9)

(33) As on what date the reserves/resources have been estimated not given, which should be specified. (Para 4.15)

(34) The status existing quarries both for limestone & dolomite has been furnished in tabular form but the working/non-working status and location co-ordinates for none of the quarry has been furnished. Likewise, status of existing dumps has been furnished but the active/deadness status and location co-ordinates for none of the dump have been given. Moreover, nothing has been mentioned about the existing status of reclamation, rehabilitation, afforestation etc., which should be given and the para may be revised. (Para 5.1.1)

(35) (i) The lease has been extended upto 31.03.2020, whereas, the proposed excavation planning has been furnished for the period from 2018-19 to 2022-23, which is not proper, thereby the excavation planning should be restricted upto 31.03.2020. (ii) There are so many quarries for limestone and dolomite have been proposed during each year of the ensuing modification period, which is not permitted, instead only one or two separate quarries for limestone as well as dolomite should be proposed. Accordingly, corresponding modifications may also be made in other places of the document. Besides, the plates submitted showing proposed excavation planning may also be revised. (Page No. 47 to 50)

(36) (i) Under the heading **Insitu Tentative Excavation**, the following observations are made: (i) The excavation planning has been proposed for the period from 2018-19 to 2022-23, instead the same should be restricted to the years 2018-19 & 2019-20. (ii) So many separate quarries for limestone and dolomite has 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. (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. (Para 5.1.2, page No. 51 to 54)

(37) There is a mention that, based on the tested bulk density both for limestone and dolomite, the Ore: OB ratio has been calculated but the copy of the authenticated bulk density report has not been submitted. (Page No. 52 & 54)

(38) Under the heading **land degradation/utilisation**, an extent of 626.732ha is proposed to be degraded /utilised by end of the conceptual period but the extent of area furnished on the above account is not matching with that of the table given under the aforesaid heading. The proposed status of land degradation during the ensuing modification period is indicated to be for 793.043 in the table but the same for the years 2018-19 & 2019-20 is not given, which should be furnished. (Page No. 67)

(39) Under the heading **post mining land use plan**, an extent of 26.800ha of area has been proposed under plantation but the year wise proposal for the same is missing. Likewise, an extent of 566.732ha has been proposed to be utilised for reclamation/water storage but the year wise proposal for the same also not given. (Page No. 68)

(40) The existing status of 17 nos. of dumps has been furnished in tabular form but the location co-ordinates of such dumps are missing, which should be furnished. (1st table of Para 7.1)

(41) The location coordinate of the waste disposal should be indicated in the table given in the para under reference for ease in monitoring. (2nd table of Para 7.1)

(42) The mineral rejects so generated is proposed to be sold out for construction of maintenance of road etc., which is not acceptable, thereby provisions for stacking the same should be made and accordingly, the information/data furnished in para 7.2 may be revised accordingly. (Page No. 82)

(43) The location co-ordinates of the proposed dumps are missing, which should be furnished by adding one more column right to the table for ease in monitoring. (Para 7.3)

(44) In the 1st table given in the page under reference, the name of Mr. V. Dungdung is furnished against the geologist- in- charge but Mr. Dungdung is no more with M/s BSL Co. Ltd., thereby the name of another geologist should be proposed and the table may be revised. (Page No. 95)

(45) Plantation has been proposed for the period from 2018-19 to 2022-23, instead the same may be given only for the years 2018-19 & 2019-20. Besides, the location co-ordinates & survival rate of such plantation may also be furnished by adding more columns in the table. (Table-11.4)

(46) The information on proposed protective reclamation & rehabilitation measures has been furnished for the period from 2018-19 to 2022-23, instead the same is required to be restricted only for the years 2018-19 & 2019-20. (Para 11.3.6)

(47) Plate-I (Lease Plan): In the contents for plates, the plate has been named as the lease with location plan but the location of the lease area has not been marked, thereby the name of the plate should be revised accordingly. Besides, there are two additional plates are submitted along with the document but the reference for the same is missing in the contents for plates. Moreover, the plates have not been numbered for their identification.

(48) Plate-I (A)(Geo-referenced Map): (i) The plate has not been numbered for its identification. (ii) The covering letter of Geo referenced map certified by ORSAC has not been enclosed. (iii) The supplementary lease deed has been executed over an extent of 793.043ha but the Geo referenced map has been prepared over an extent of 802.4484ha, which is not matching with the extent of lease area.

(49) Plate-II (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) Surveyor signature is missing, which should be signed by a competent surveyor.

(50) Plate-III (Geological Plan): (i) As per the new 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) During the inspection it was found that, many of the already drilled boreholes have been closed within the ore zone without any proper justification. (iii) New exploration proposal covering the entire lease area to the G2 level of exploration should be proposed and the same should be completed by 2018-19. Besides, certain boreholes also to be proposed adjacent to those boreholes which were terminated within the ore zone with the purpose to prove the depth continuity of the ore body. Accordingly, necessary modifications/incorporations may also be made in Geology and Exploration chapter.

(51) Plate-IV/A (Development Plan): (i) The excavation planning has been proposed for five years period, whereas, the lease has been extended by the State Govt. upto 31.03.2020, thereby the proposal should be restricted to 31.03.2020. (ii) There are so many separate quarries for limestone as well as dolomite has been proposed under excavation planning, which is not proper. Therefore, one or two separate quarries for limestone as well as dolomite should be proposed and all the relevant plates submitted along with the document should be revised. Accordingly, corresponding modifications may also be made in connected paras in the text portion of the document.

(52) Plate-V (Key Plan): Population of village falling within the 5 km radius of the lease area is missing, which should be furnished. Besides, the direction of flow of nala also not marked.

(53) Plate-VI (Environment Plan): On the plan, 500 meter of the lease area has not been marked, which should be done depicting all existing features available within the 500 meters and the plate may be revised accordingly.

(54) Plate-IX (Conceptual Plan): Conceptual plan & sections should be prepared showing the details of workings upto the lease period and the plate may be revised accordingly.

Sh
0A-12-2017

(G. C. SETHI)

Deputy Controller of Mines